



## President's Letter to Members

*“Welcome Back My Friends, To the Show That Never Ends...”*

The planning is being finalized. We are determining the last minute details for presentations, who is where, and making sure that all of the attendees have a good time. Soon after we publish this newsletter the 2012 conference in Portland will begin. And the planning for the 2013 Conference in Los Angeles will be in full swing...and the 2014 Conference in St. Petersburg, Florida will be starting to gel. Within any single year there are people in NAEP working on future conferences. This is an amazing feat of prioritization and planning that still amazes me. For NAEP it really boils down to a continuous

stream of future planning and teleconferences. The calls to plan the details of Portland ended the last week of April. The first planning calls for 2013 started almost immediately thereafter.

The planning and implementation of a conference is something that I had no experience with until the 2007 conference in Orlando. I was finishing my last term as President of FAEP and was part of the planning group that was responsible for getting interesting keynote speakers. I am still proud of the entertainment keynote with Mr. John Hankinson and Mr. Dale Crider playing guitar, harmonica and banjo while narrating a plethora of pictures of Florida's natural beauty. The music was great; they were funny; and the pictures were breathtaking. The overall planning of the conference, the tracks, the presentations and the hot topics had always been something I enjoyed without realizing what it took to put all of those parts into motion and create the entire conference experience.

Donna Carter is our staff planner who facilitates the completion of the dreams of the volunteers. She has been our planner for many years (more than I actually know about). She negotiates the hotel chosen by the local chapter. She works her magic to help the conference operate smoothly. Behind the scenes, she is a whirlwind of thought and action. For the 8 years I have been exposed to the conference planning, I do not know of a single incident that has stumped her. In every way, Donna is the consummate professional. No matter what it is, what the plan is, Donna helps make it all happen. For those of you who have not met Chip, you must get to know him. Mr. Fixit comes as part of the package deal that is Donna. The two of them are a real treat to work with.

The volunteers, local and national, are singularly dedicated to the success of each conference. They are a good mix of leaders who focus on their individual strengths at the national and local levels. It must be recognized that even the local emphasis usually has national implications. These volunteers work together and many of them have never met. By the time the conference is in full swing, they are sharing beers and swearing they will never do it again...all the while wishing someone would just ask them to do the next one. The forming of a successful conference takes the vision and sweat of these dedicated volunteers.

The local volunteers use their knowledge and their vision to develop a concept, to make each conference another unforgettable experience. The sights and sounds of the Native American dancers who opened the Albuquerque conference (2006) are still etched in my mind and my heart. It has been the rule that the local plan-

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*Editor's Note: This invited article is another in our attempt to bring some facts to the environmental debate. ELPC is a non-profit that has been a source of information for me personally as I have increased my political knowledge. The following link is really interesting and provides another success story for us all to consider when the question of energy independence is raised. A lot is happening in America to become more independent of petroleum. <http://farmenergy.org/uncategorized/video-save-farm-energy-programs>*

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## Renewable Energy Demand Drives Manufacturing Growth

**Ashley Craig**



**M**any econometric studies have been completed, predicting and estimating job creation from renewable energy development. In 2010, the Environmental Law and Policy Center (ELPC) began researching the Midwestern renewable energy companies that represent the results of the econometric studies. Consequently, ELPC has successfully promoted wind and solar development in the Midwest by documenting its ability to

create jobs and spur economic growth. ELPC developed a series of six reports that documented specific companies engaged in clean energy manufacturing in five Midwestern states: Illinois, Wisconsin, Michigan, Ohio and Iowa. By organizing the information geographically, we have provided elected officials exactly the information they need to better understand the local business implications of their decisions.

ELPC's reports have provided tangible, relevant information to state and federal elected officials on the local business impact of public policy decisions. Additionally, the research process for creating the reports allowed ELPC to cultivate new messengers in the business sector to discuss the importance of promoting renewable energy. One of the more interesting outcomes of the information gathering and reporting process was that it helped encourage self-awareness among firms of their common interest, as companies began to think of themselves as "wind energy suppliers" rather than just as "gear manufacturers."

In summary, we found that demand for renewable energy generation translates into job creation. Additionally, the cost per kWh of power generated by wind and solar has been declin-

ing steadily for the past five to ten years. In the wind industry, this trend is largely due to the increased domestically produced components for wind turbines. The cost of solar has fallen by as much as 50% in the last year alone, driven by falling silicon and, thus, panel prices. The solar trend has been largely the result of increasing imports, particularly from low cost producing countries like China. However, the industry needs consistent policy support to continue to grow and provide low cost power to all U.S. energy consumers.

One noteworthy current issue is the looming expiration of the Production Tax Credit, or PTC. The PTC is a key federal policy tool that has supported over \$60 billion of investment in wind development over the past six years. The PTC is set to expire at the end of 2012. Due to the long lead time for wind development, virtually no orders for wind turbines have been placed for delivery after 2012. As a result, many of the suppliers we discuss below will likely see a significant reduction in wind business and many will have to lay off employees unless the PTC is renewed within the next few months.

Below is a summary of some of our key research findings, along with examples of companies that are part of the wind and solar supply chain in the Midwest. The full text of our reports can be found on our website at [www.elpc.org/elpc-publications](http://www.elpc.org/elpc-publications).

### Meaningful job creation:

Clean energy demand translates into job creation throughout the supply chain in all five states. In total, we estimate more than 50,000 jobs in the Midwestern region are attributable to the renewable energy sector (which we defined as solar, wind and geothermal). We estimate that every megawatt of solar or wind power developed creates 15 to 20 manufacturing jobs, in addi-

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## Renewable Energy Demand *Continued from page 2*

tion to the incremental jobs created from installation, operations and professional services like legal and finance. In some states, like Michigan, state programs enhanced the job creation potential. Our total count for companies and employees in the five Midwestern states we researched is shown below.

	Companies	Employees
Wind	630	19,800
Solar	282	13,800

### Re-tooling old-line manufacturing:

Over 400 manufacturing facilities across 43 states currently supply to the wind industry. Many of these, along with a number of solar suppliers, have retooled to meet the demand from this emerging energy sector. The Midwest has traditionally been a region that “makes things” and renewable energy has provided a new market for old-line manufactures. Profiled below are several companies that, as of the publication of our reports, were supplying to the renewable energy sector. While wind has been a driver of growth for many of these companies, the lack of clarity around the PTC extension is causing some companies to reduce exposure to wind and, in some cases, to announce layoffs.

**Aldridge Electrical:** Located in Libertyville, Illinois, roughly 45 minutes outside of Chicago, Aldridge is an electrical contractor with over 500 employees and 60 years of experience completing transportation, drilling, mass transit, renewable energy and utility projects. In the renewable energy sector, Aldridge performs a range of electrical work including wiring turbines, installing solar panels for utility scale installations, installing high voltage underground cables, building electrical substations and laying transmission lines. Aldridge completed the electrical work for the 10 megawatt Excelon solar installation on the south side of Chicago. The company started its renewable energy division five years ago.

**Cardinal Fastener Inc.:** Located in Bedford Heights (Cleveland), Ohio, Cardinal is one of the largest U.S. fastener manufacturers of large-diameter, high tensile strength bolts for the construction, heavy equipment and energy industries. Cardinal has been manufacturing fasteners since 1983 and began production for the wind industry in 2007 after John Grabner, President of Cardinal, undertook an

internal paradigm shift to aggressively adopt a new industry for supplying fasteners. On November 1st, 2011, Cardinal was purchased by The Würth Group following the restructuring process after voluntarily filing for Chapter 11 Bankruptcy Protection. Post- restructuring, Cardinal has experienced a surge in demand and growth, increasing its work force by 60% since last year, with a total of 31 associates today. Cardinal is currently defying the odds of a post-bankruptcy business by achieving new sales levels from its dedicated customer base in the wind and other industries. However, without the extension of the PTC there will certainly be a reduction in production in Cardinal’s wind business.

**Gougeon Brothers:** Started in 1969 as an iceboat builder in Bay City, Michigan, Gougeon has expanded into marine-grade epoxies used around the world in boat building and boat repair. The company employs in-house chemists, who formulate epoxies to withstand harsh ocean environments. Gougeon diversified its applications into architectural restorations, high-tech aircraft, spacecraft and, most recently, wind turbine blade construction and repair.

**Merit Gear:** Founded 1951 in Antigo, Wisconsin by two gear makers from Chicago, Merit started as a wind supplier seven years ago when another company was not able to fulfill its order to a wind turbine gear box manufacturer. Until now wind has not accounted for more than 5% of Merit’s business, but the company has received its first significant production order for the complete array of wind turbine gearing. Merit has 125 employees and manufactures most of its gears and gearboxes for the oil, mining, and transportation industry, including the New York City subway system and Chicago’s Metra. The company’s gearing machines achieve tight tolerances on gear teeth, which allows the gearing to withstand greater loads; that means the gearbox and the wind turbine nacelle can be smaller and lighter.

**Mid-Iowa Tools:** Located in Cedar Rapids, Iowa, Mid-Iowa Tools was founded in 1974 to help customers reduce inefficiencies and redundancies in their supply chains and provide technical service and application support to manufacturers in the Upper Midwest. The company provides assembly tools, cutting and abrasive tooling, gauges and calibrations both to original equipment manufacturers and to wind farm operators.

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## Renewable Energy Demand *Continued from page 3*

### Costs are declining:

The cost of generating wind and solar energy has been declining with every year. Two of the biggest drivers of the decline in wind energy cost are advances in turbine innovation and domestic content of wind turbines. In the past four years, turbine pricing has declined by approximately 40%. This decrease, coupled with increases in efficiency, has helped make wind the most cost competitive of new generation in many instances. As a result, some wind projects are selling power simply because it is the lowest cost of new generation available. For example, Alabama Power announced a wind purchase agreement in September, where the state will purchase enough electricity to power 80,000 homes. The purchase is notable because Alabama does not have a Renewable Portfolio Standard, a mandate that drives many wind power purchases.

In solar, costs have been declining rapidly due to panel price declines. A glut of worldwide supply pushed panel prices down as much as 50% in the last year, causing challenges for U.S. panel manufacturers but driving demand for installations.

### Policy is critical:

Demand for renewable energy is impacted by policy. As the chart below demonstrates, wind industry capacity additions have ebbed and flowed in response to the PTC renewals. Additionally, renewable Portfolio Standards in 24 states and the District of Columbia (along with non-binding goals in five other states) have created demand for wind and solar power generation. Through our research we found that the coordination and

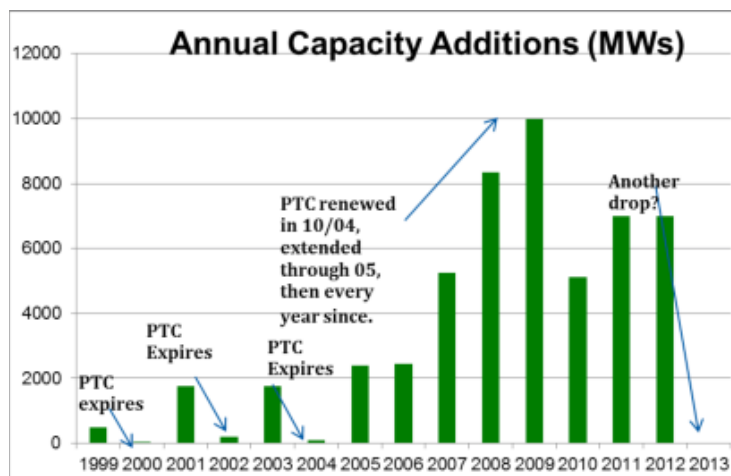
integration of local, state and, federal policy encourages demand that leads to growth in the wind and solar supply chain. Other examples of innovative and integrated smart policies are progressive net metering and interconnection statutes, the development of Renewable Energy Renaissance Zones and Centers of Energy Excellence, along with tax credits for wind and solar producers and users to name a few.

### State programs drive investment:

We found that Michigan had some of the most aggressive state programs geared toward encouraging investment in clean energy component manufacturing. For example, in 2006, the state and the Michigan Economic Development Corporation (MEDC) completed a comprehensive renewable energy supply chain assessment and began helping existing manufacturing companies that could quickly diversify into the wind and solar industries. MEDC focused on educating potential suppliers on the industries, facilitating matchmaking with wind and solar original equipment manufacturers (OEMs) and Tier 1 suppliers, providing industry training and supporting manufacturing and innovation through the Centers of Energy Excellence Program (COEE). The COEE was created in 2008 with \$45 million financed by the 21st Century Jobs Fund that created “cluster teams” and has provided grants to for-profit companies that are commercializing innovative energy technologies with support from a university.

### Transportation creates an advantage:

Existing multi-modal transportation across five states is a significant benefit to manufacturers, particularly in the wind supply chain. Wind components can weigh many tons and require significant logistical and permitting accommodations. Iowa is a national leader in the wind industry, with the second most installed wind capacity of over 4,300 megawatts. As a result, the state has attracted many major wind manufacturers. Not coincidentally, Iowa has made a concerted effort to develop a comprehensive transportation system. The state’s central location and transport infrastructure have made it a good location for manufacturers to ship and receive wind components. The Iowa Department of Transportation works closely with the Iowa Department of Economic Development to attract businesses by streamlining permitting, overcoming transportation constraints, and making state representatives available to discuss freight movements and logistics.



Source: www.awea.org

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## Renewable Energy Demand *Continued from page 4*

### Universities provide essential training and research:

Universities have played a key role in developing a skilled workforce to help growth and sustain the renewable energy supply chain across the region. Universities are also the hub of research into new and innovative technologies. For example, Ohio is home to numerous institutions that encourage the growth and development of the renewable energy industry. Research programs at the University of Toledo have helped that region become a center for the production of flexible sheets of “thin film” photovoltaic cells. Battelle, the world’s largest non-profit independent research and development organization, is headquartered in Columbus. There are seven Edison Technology Centers across Ohio that provide innovation and commercialization services to technology-based businesses, including solar. The Central Ohio Hub for Advanced Energy Manufacturing and Energy Storage was created to position Columbus and Central

Ohio as a global leader in advanced energy storage research, commercialization and manufacturing.

### Bi-partisanship:

Expanding the wind and solar supply chain has historically been a bi-partisan effort that has led to thousands of jobs, industry expansion, and re-purposing of existing manufacturing and transportation infrastructure. For example, the legislation introduced to extend the PTC (H.R. 3307, the American Renewable Energy Production Tax Credit Extension Act of 2011) is bi-partisan legislation with 70 co-sponsors from both political parties.

In sum, our research found that renewable energy demand had driven job creation throughout the Midwest. However, consistent, stable policy is essential to help this relative nascent industry gain footing to be able to compete head to head against other more established energy sources.

## EIA Campus

EIA Campus is now online! EIA Campus provides online courses for Environmental Impact Assessment professionals in the US and worldwide. These courses are taught by Dr. Larry Canter, a leading expert and seasoned educator with over 40 years in the EIA field. Each course offers video instruction by Dr. Canter, bullet points, reference documents and review that Dr. Canter uses in the onsite courses he teaches to US agencies, consulting companies, and international governments each year.

- ✓ Each 1 1/2 hour course includes video instruction and a downloadable student manual.
- ✓ Each course costs \$75 and students can access it as many times as needed for 60 days after purchase.
- ✓ Each course can qualify for 1.5 hours of PDH/CE.



## Current Online EIA Courses

### Cumulative Effects Series

- Principles, Processes and Documentation
- Addressing Past, Present and Reasonably Foreseeable Future Actions
- Special Considerations Related to Describing the Affected Environment
- Connecting Actions with Consequences on VECs
- Mitigation, Monitoring and Collaborative Management
- Emerging Best Practices Principles **NEW!**

### EIA Process Series:

- NEPA, CEQ Regulations and Agency Regulations
- Impact Study Planning and Scheduling
- Integrating a Public Scoping Program with an Agency Scoping Process
- Methodologies for EIA
- Identification and Evaluation of Alternatives
- Climate Change within the EIA/NEPA Process **NEW!**

### Adaptive Management Series:

- Fundamental Aspects of Planning
- Case Studies

### Technical Writing for EIA (NEPA) Series:

- Principles of Technical Writing Applied to the EIA Process
- Special Topical Issues Related to Writing and Reviewing EIA Documents

[www.EIACampus.com](http://www.EIACampus.com)



## President's Letter

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ners try to outdo the previous year in exciting guest speakers and exciting entertainment. I just learned last week that the band that played at the 2008 conference in San Diego have stayed together, gotten better, and will be our entertainment next year.

The volunteers who plan the sessions for each conference have one of the most important mental visions. They have a national perspective; they see the way that everything interacts and the importance of interdisciplinary knowledge and continuing education. For several years, the primary goal of the planners has been choosing presentations that have a common thread for a particular session. For those lucky enough to have multiple sessions, their tracks also reflect a theme or several related sessions. Their goal is to capture an audience and deliver it to a level of knowledge that is hard to find outside of a classroom. The great part about their goal is that the presenters are experienced national experts and well known practitioners.

I also want to make it clear that none of this would be possible without the expertise of those who seek funding and support for each conference. In many ways, the burden of meeting exhibitor and sponsorship goals for a national conference falls to the local volunteers. They do an amazing job of getting representation of nationally recognized suppliers, consultants, and educators. The cost of putting on one conference would be impossible without their hard work.

This year I am also particularly struck by the support that we have received from the affiliated chapters. The Northwest Chapter provided leadership in this endeavor, behind them came the FAEP (and one of their subchapters), and three other chapters. This support is the result of visionary leadership, an understanding of the mission of the national association, and a desire for all of us to have continued success. I thank them all and ask that you recognize them during your time at the conference.

I must also recognize the efforts of the Board of Directors. They were directly or indirectly responsible for bringing nearly 1/3 of the total sponsorships to this conference in particular. This is an active and committed Board. Things happen when they get involved. I am so grateful for having this level of support as President of NAEP. Anyone who watches politics realizes that a President cannot accomplish his goals and dreams without the support of the other governing personnel. These people are strong supporters. When you see a Director at the conference, thank that person personally for what they do.

The cool thing is that by this time next year, we will have finished our meeting in Los Angeles as well. It is already shaping up to be a beauty.

## Letter Part 2: Earth Day at 42

Last week Tim reminded me several times that Earth Day was coming up. I was struggling with several project deadlines as well as editing this newsletter and could not figure out how I was going to add one more writing assignment to my schedule. He provided me with the last two messages from Ron Deverman during his Presidency. I was inspired by his words and started to do a bit of homework. In the interest of full disclosure, I was of college age for the first celebration. Yet, I do not remember the first Earth Day. I started to wonder why I did not remember much from that important day in America. Those who really know me can speculate as to the reason, and you are partially right.

Then I realized the reason was that I really was not involved. At that time I had just moved to Massachusetts and I was just starting my first career as a sailor. I was the messman on the Research Vessel (RV) Lulu sailing out of Woods Hole Oceanographic Institution (WHOI). I had no apartment or television; I had no radio. I lived on board the ship. I lived day to day and enjoyed the thrill of the open ocean. Our ship was the mother for the Deep Submersible Research Vessel (DSRV) Alvin. The ship and baby had just returned to sea after some years away while Alvin was sunk off the Spanish coast and then rebuilt. During my tenure on the vessel I was fortunate enough to dive in Alvin to 6,000 feet off Andros Island in the Bahamas. It was a life transforming experience.

WHOI is still there and still on the forefront of oceanographic science. Alvin is still carrying scientists to the bottom of the ocean. Lulu is gone and replaced in its successor, the RV Atlantis, the third vessel of that name at WHOI. I do miss those days, but am so glad I experienced them.

So, being at sea for the first Earth Day (April 22, 1970), I really had to get a perspective as to WHY it became so important. Yes, there are political spins that have been developed since 1970, but the real mindboggling fact about that first Earth Day is that it was a central focus of the entire earth for that particular day. Do yourself a favor and visit this web site (<http://www.earthday.org/earth-day-history-movement>).

Read the story and then watch the several videos available. In particular, watch Frank Blair read the amazing events that attended that day. Congress adjourned, 20 million people attended

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## President' Letter

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massive protests against pollution, and, as the story on the web stated, "Earth Day 1970 achieved a rare political alignment, enlisting support from Republicans and Democrats, rich and poor, city slickers and farmers, tycoons and labor leaders. The first Earth Day led to the creation of the United States Environmental Protection Agency and the passage of the Clean Air, Clean Water, and Endangered Species Acts."

Twenty million people!! That day was the birth of a movement, the start of our very livelihoods.

I missed that day. I did not catch the fever directly, I was slowly inoculated as I watched our ship, sailing hundreds of miles off shore dump their garbage overboard at night when the scientists were mostly asleep. It was just how things were done. I saw in the middle of the Atlantic as we dredged the Mid-Atlantic Ridge and we pulled up trash. Trash floated throughout the ocean, it was obvious that something was wrong. The end of the Frank Blair video is a prediction of global warming...42 years ago. Much of that day is still with us.

This Earth Day I found an anti Earth Day video that scared me (<http://now.msn.com/living/0422-anti-earth-day.aspx>). Solely by the misinformation it contains, it preys on fear while providing no answers for where we are and what needs to be done to have the US assume its leadership role in the world again (hint – better education in the sciences).

The amazing thing is that it was touted as "going viral" on the web. What does that mean these days? Thousands of people watched it. Does it mean people believed it? I certainly hope not. Does it mean as much as 20 million people joining together 42 years ago? Not hardly.

To me the concept of the video and the supporting organization represent the last gasp of a dying way of life that believes that we still have endless resources. That America can somehow become ascendant while still remaining stagnant in the old ways of life. The video represents those relics who buy into the half truths about energy and do not understand that petroleum-based energy is the way of the past.

As you reflect on what we face these days, when you think that the relics are winning, just remember, thousands vs. millions. I think we have the number advantage. We just need to care like we did 42 years ago. Those of us who have been fortunate to be educated in the sciences need to help our progeny have the same advantages in education we had.

We also need to keep our side of the street clean. By that I mean we also need to educate the activists who rally without knowledge. There are "environmentalists" who see no problem with exaggeration and half truths to make their point. Environmental Professionals need to overshadow those misguided persons and be willing to tell the truth, unvarnished and complete.

We need to educate those sympathetic to the environmental cause in the truths of what we know and understand. We need to look at ourselves and not be afraid to make needed changes. We need to recognize that fear is not the way to convert people. Knowledge and education will provide us with the advantage of intelligent leaders and scientists. Those leaders of today and tomorrow can and should come from this "environmental movement." They will provide the new inventions and businesses that will help us walk lighter on the earth and leave only our footprints. When it is all over for us and our successors take our place, I would hope that the legacy of Earth Day will be what we leave for our children. I pray that America finds that Earth Day Spirit and it once again proliferates like a wildfire.

## Advertising Opportunities in the NAEP Newsletter

The NAEP Newsletter is offering a limited amount of advertising space in the publication. Advertisements will be limited to two pages per issue for 2012 and once that space is filled per issue there will be no other advertisements accepted. Advertisers will have the opportunity to purchase space in all remaining issues of 2012 so that they can be assured of space in each issue. This is a great opportunity to both support NAEP and gain access to a potential readership of over 6,500.

Ads can be purchased in either quarter or half page sizes and is priced at a very affordable price that starts at \$375 per ad for a quarter page ad when 6 ads are purchased. The purchasing of ads in advance allows the advertiser to reduce their costs and allow you to make sure your ad space is reserved.

For more information on advertising opportunities or to reserve your space please contact Tim Bower at 856-283-7816 or by email at [naep@naep.org](mailto:naep@naep.org).



## EIA: A Corrupted System

Thomas F. King



### Introduction: Is Honest NEPA Policy?

The National Environmental Policy Act (NEPA), after articulating national policy favoring the human environment, directs federal agencies to produce detailed statements of the environmental impacts of major actions they propose, where such impacts are thought to be significant. From this direction, and

from the regulations of the Council on Environmental Quality (CEQ), the environmental impact assessment (EIA) industry in the United States has largely sprung.

NEPA doesn't say so, and the regulations only imply it, but it seems self-evident that in enacting NEPA, Congress expected that the statements of environmental impact to be produced in response to its direction would be honest ones, identifying impacts clearly, comprehensively, and as objectively as possible (with the understanding, I hope, that not all impacts or aspects of the human environment *are* objectively definable).

I have been working in and around EIA, and the related "cultural resource management" (CRM) industry, since the early 1970s, and it has become my sad conviction that, particularly in the last decade or so, honesty has become a rare quantity. Or more accurately, perhaps, we have substituted honesty toward our clients – expressed by being team players – for honesty toward the public in whose interest NEPA must have been enacted.

Realization of this sad condition was driven home to me awhile ago when I was engaged by local property owners and an Indian tribe to help them critique the EIA and CRM work being done in advance of three large projects in different parts of the country. Working for "the opposition," as it were – the "NIMBYs," some said – I was motivated to apply high standards to the work being performed by the proponents' EIA and CRM contractors, and the results were pretty dismaying. These contractors routinely minimized the potential direct impacts of their proponents' projects, defined away indirect impacts, and expressed utter befuddlement about cumulative impacts, while brushing off complaints, assertions, and alternatives advanced

by my citizen and tribal clients. They were routinely abetted in their obfuscation by the federal agencies ostensibly responsible for overseeing and regulating them.

### The Corruption of NEPA Practice

The reasons for this condition were and are not difficult to perceive. As we all know, it is commonplace for project proponents to contract for EIA (and CRM) work. We in the business serve our clients at their pleasure, and may be replaced if our findings are, in our clients' eyes, discordant with their desires. True, this not always the way things are set up; there are various other arrangements -- notably those in which an overseeing or regulatory agency contracts for EIA on a regulated proponent's project – but in those cases the political cards tend to be stacked in favor of the proponent. On the whole, the system has become one in which we serve as members of a proponent's planning team. Our mandate, and the service we usually, reflexively advertise, is to help project proponents get through the NEPA process (and related reviews) in as efficient a manner as possible. If we are seen as too often discovering roadblocks, we select ourselves out of the EIA gene pool. This has gone on long enough that both practitioners and the public have become used to it. Few of us practitioners question our roles as a proponent's environmental agents, and the public by and large expects that EIA will be slanted to favor project approval.

This leads naturally to the perception that EIA is a mere bureaucratic hurdle that proponents must pay to scramble over. Although one does not often yet see this perception expressed by the public or its elected representatives, it is implicit in the growing ease with which Congress waives the application of NEPA to projects it decides to promote. NEPA is widely referred to as a "stop, look, and listen" statute, but there is little point in investing in such caution if the exercise of visual and auditory faculties does not minimize the likelihood of stepping out – or tossing the public interest – in front of a bus. Thus the irony of our situation – delicious, in its way – is that by maximizing our short-term gain through serving our clients rather than the public interest, we may be killing our own industry.

### Crying in the Wilderness

I published a discussion of this and related topics in 2009 in a book called *Our Unprotected Heritage: Whitewashing Destruction of the Natural and Cultural Environment* (King 2009). Since it was published, the situation has if anything gotten worse, with land managing agencies in the west regarding themselves





## EIA

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as having marching orders from the White House to expedite “clean” energy projects regardless of their impacts. With wind and solar power proponents funding EIA, oversight agencies feeling compelled to expedite approvals, and environmental groups that would normally serve as watchdogs compromised by the ostensibly “green” character of the projects under review, there is nothing to ensure the integrity of EIA work but the integrity of EIA practitioners themselves — a thin reed upon which to lean.

I recently experimented with an on-line petition ([http://signon.org/sign/president-obama-reform.fb1?r\\_by=2072799&source=s.fb](http://signon.org/sign/president-obama-reform.fb1?r_by=2072799&source=s.fb)) asking the president to seek amendments to NEPA, or issue an executive order, requiring honest, objective EIA that respectfully involves and is responsive to the public, and that happens *before* decisions are made to promote projects, rather than afterwards (as seems to be current White House policy). Given the esoteric nature of the subject matter I didn't expect a lot of response, and at this writing I've gotten something under 400 signatures. But it's my firm belief that something needs to be done to reform the way EIA is done in this country, or it will soon simply not be worth doing.

## Caldwell's Critique

Others have looked askance at practice under NEPA; there was quite a spate of stinging critiques at the end of the last century and the beginning of this one, before the coming of the Bush administration turned such exertions into exercises in futility. One of the most notable of the critiques was by the primary author of NEPA himself, the late Lynton Keith Caldwell, who in 1998 published a retrospective analysis of the law and how it had been implemented. Caldwell was straightforward in his criticism of how NEPA had been, in his view, misinterpreted by the agencies and the courts. As largely a theorist he paid less attention to how these misinterpretations had played out on the ground, and as the statute's legislative guru he was understandably vague about anything in the law that might have given rise to the misinterpretations he decried. He did hold out hope for improving interpretation of the law, but I fear his hopes reflected his remove from actual practice, and his reluctance to imagine that the statute itself might be flawed.

Caldwell proposed the following “alternatives to strengthen NEPA”:

1. *Enlarge public understanding of the need for an effective envi-*

*ronmental policy, which is also policy for people in relation to the environment, and the importance of NEPA principles for America's future.*

2. *Ensure that the importance of NEPA principles are present in the attention span of political party leaders and the shapers of public opinion.*
3. *Provide institutional nonjudicial means for the appropriate resolution or mediation of conflicts over issues of environmental quality.*
4. *Reform the committee structure of the Congress to provide for a more responsible consideration of environmental issues and possibly to establish a Joint House-Senate Committee on the Environment.*
5. *Revise NEPA to clarify and strengthen its statutory provisions.*
6. *Restore the Council on Environmental Quality to its intended role in the Executive Office of the President as provided by Title II of NEPA.*
7. *Amend the U.S. Constitution to give environmental protection the status of fundamental law.*

In my 2009 book I look at each of these alternatives in some detail. They would all be good things to do, but all really turn on Caldwell's first proposal: to “enlarge public understanding.”

Certainly the public does not understand the NEPA review process. There is the general notion that government does environmental impact statements for some reason, but that's about it. So enlarging public understanding is a good idea, but to do this we need to know why the public doesn't understand in the first place. And this poor understanding, I believe, largely reflects the character of the process as we practice it.

Despite CEQ's good-hearted (though abysmally constructed and promulgated) efforts to encourage public involvement, NEPA is not a public-friendly statute. It was a product of what Frank Fischer (2000) has called the “Age of Expertise,” in which expert analysis was trusted to provide solutions — mostly technological ones — to society's problems.

The expert-oriented culture out of which NEPA grew assigns the public a pretty passive role. Decisions are to be made by government based on scientific analyses, as interpreted for decision makers by experts. The public is to be kept informed, and is to have opportunities to review and comment on draft documents, but it is not actively engaged either in impact

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analysis or in decision making, and its views tend to be politely dismissed except when they are backed up by considerable political firepower.

The NEPA regulations permit (but do not require) an agency to *seek public input* when developing the scope of an environmental impact statement (EIS), and they require that the public have the *opportunity to comment* on EISs in draft. That's it, and even these requirements apply only vaguely to the far more common preparation of environmental assessments (EA) and review of categorically excluded actions for "extraordinary circumstances." With such a stilted, formulistic, and often pointless comment-and-response mechanism as the major interface between the public and NEPA, it is hardly a surprise that we have yet to see a vigorous "friends of NEPA" movement. Most people – even people who want to save the environment – don't have much investment in NEPA.

The expert-focused, science-based character of NEPA practice works against public involvement in a more intrinsic way. Not to put too fine a point on it, experts and scientists tend to be liberal in their political views, while a large percentage of the American electorate classifies itself as conservative. Conservatives are not necessarily anti-environment, but they are protective of such institutions as private property rights and the right to bear arms. To the extent that NEPA and the activities it requires are seen as impositions by pointy-headed liberal scientists that restrict individual rights, the more conservative segments of the public will be cool to them.

But protecting heritage, and giving citizens a fair shot at saving what's dear to them, are not exclusively liberal values; many conservatives support them vigorously. Where laws like NEPA are understood (as I think they should be) as tools to protect the heritage of ordinary citizens from the depredations and mindlessness of federal agencies and big corporations, I've found that they resonate well with conservatives.

To enlarge public understanding of NEPA, then, I think we would have to restructure our practice to engage the public and respect the heritage interests of individuals, through a system of mandatory respectful consultation of the kind ostensibly (but today rather poorly) required by Section 106 of the National Historic Preservation Act (NHPA).

What mostly troubled Caldwell, though, was not public involvement in NEPA's Section 102 project review process;

he was more bothered by the fact that government had never taken seriously the policies laid out in Section 101. It was these policies that he wanted the public to understand, and force its elected representatives to embrace. That's a worthy goal, but I don't think most people relate very comfortably to the abstractions of public policy. People react to things, become involved in things, when those things somehow affect them. NEPA needs to be a tool that people – people with all levels and kinds of expertise and of all political persuasions – can use to influence government decisions that affect their valued environments; otherwise NEPA's policies will never be anything but vaguely understood abstractions.

## My Interim Proposal

If Caldwell's prescriptions are unrealistic, how else can we improve the way NEPA is practiced? I don't pretend to know for sure, but I think we'd all better start talking about it. Hence my current petition to the president, and a chapter in my 2009 book in which I offer the following more detailed recommendations:

*Mister President, if you think it's worthwhile to stop wasting everybody's time and money whitewashing the impacts of federal actions and decisions on our natural and cultural heritage, here are a few things to do.*

### Tell the Agencies to Clean Up Their Acts

*Issue an executive order telling all agencies of the federal government to establish or rework their procedures for compliance with the heritage laws – notably but not exclusively NEPA and NHPA – to ensure to the extent possible that the studies that are done and the reports that are prepared are free from bias in favor of or against actions whose impacts are analyzed. Go on to direct that such procedures provide for things like:*

1. *Conducting impact analyses – of all kinds, not just EISs – using knowledgeable third parties with no direct or indirect links to the proponent of the actions whose impacts are analyzed.*
2. *Conducting rigorous third party review and critique of any analyses performed by or on behalf of project proponents.*
3. *Objectively analyzing alternatives, including those suggested by members of the public.*
4. *Consulting with affected and interested parties and the general public, to identify and resolve objections and explore alternatives, with the objective of reaching agreements among all concerned parties (though with provision for a final decision to be made in the absence of agreement). You should be very*

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clear about the fact that while expert opinion is important, so are the opinions of ordinary citizens, especially where places and things that citizens value are concerned.

5. Considering all kinds of project effects – direct effects, indirect effects, and crucially, how the alternatives under review would contribute to cumulative effects.
6. Considering not only quantifiable impacts but those that can't be quantified, such as effects on social, cultural, and spiritual values.
7. Integrating and coordinating analysis and consultation under all the environmental and heritage laws, regulations, and executive orders, notably including NEPA, NHPA, and ESA.
8. Regular training for agency and contractor personnel, cooperation with academic institutions, and other such measures designed to maintain the quality of interdisciplinary research and responsible consultation with the public.
9. Monitoring performance to promote integrity in analysis and in relations with the public.
10. Actually using the results of impact analysis in making decisions, with explicit attention to the policies set forth in Section 101 of NEPA and Section 2 of NHPA. An agency should be able to show either that a decision it makes is consistent with these policies, or that its inconsistency is justified in the public interest.

I know, Mister President, that a lot of these things seem so obvious that you shouldn't need to instruct your establishment in them, but believe me, you do. And doing so would be a start at reforming the system, both by improving its integrity and by getting the public actively involved.

There's something else you should do.

### Rework the Regulations and Consider Consolidation

Tell CEQ, the Advisory Council on Historic Preservation, the Fish and Wildlife Service, and all the other oversight agencies to get together over a specified period of time, with lots of open public involvement, to reconsider and revise their collective regulations implementing NEPA, NHPA, and the other heritage laws. The agencies should seek consistency, simplicity, transparency, and full, open public involvement.

Direct the same agencies, perhaps through the same program of cooperative review, to come up with recommendations for consolidat-

ing compliance with the various laws, including changes in the laws themselves as needed, to create an EIA system (including CRM) that is simple, straightforward, and accessible to the public.

Make sure the cooperative interagency review is overseen and coordinated by someone with the authority to resolve disputes and gore whoever's oxen need goring. Consolidation of oversight agency functions is certainly going to leave blood on the floor, but it has to be done if a system is to be created that ordinary citizens, not just specialists, can understand and participate in.

And then –

### Consider Legislation

Once you have an idea of what ought to be done to improve the review systems, and once you've explored how far you can go under existing authorities, consider going to Congress with a package of legislative adjustments to NEPA, NHPA, and the other laws. Some might simply be done away with; there would, for instance, be no need for a Section 106 of NHPA if NEPA provided for public consultation about impacts on the cultural aspects of the environment. Others could be adjusted. For instance, rather than just calling for a "statement" of environmental impacts, NEPA might prescribe a process of analysis, consultation, and application of the Section 101 policies.

Whatever law or laws emerged from this process should clearly embody the principles of honest, balanced analysis and consultative public participation. The law should not elevate heritage protection over everything else, but it should make sure that such protection — and the interests of people who care about their heritage — has a fair chance to influence public policy.

### Conclusion

That's my pitch, and it would be nice to think that the EIA industry could get behind it. I suspect, however, that most participants in that industry are content with the status quo, and likely to remain so until they find there is no longer a status quo with which to be content.

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## Review of the Book: Global Environmental Policy: Concepts, Principles, and Practice

By: CRC Editorial Staff

**E**nvironmental policy is often practiced reactively. Each ‘environmental crisis’ is addressed as a lone, isolated event. In *Global Environmental Policy: Concepts, Principles, and Practice*, authors Charles Eccleston and Frederic March have written a book that takes a decidedly

different approach. While, most books consider environmental policy from a historical view or from the perspective of discussing the current state of policy initiatives, this book offer readers a balanced skill set of concepts, principles, and “tools” for developing and implementing environmental policy solutions before they fester into full-blown crises.

Various aspects of the National Environmental Policy Act (NEPA) are woven throughout their book. Environmental policy is approached from both a domestic and international perspective. The book is logically divided into four parts. This was done to organize the large variety of concepts, principles, policies, practices and issues into a logical, yet connected manner that would be reader-friendly:

**Introduction** – The Introduction defines the nature and scope of the environmental policy problem; outlines its origins and evolution; and introduces the policy “frameworks” of the United Nations, European Union, and the United States.

**Part I: Global Environmental Concepts and Principles** – unifying principles and concepts of environmental policy are presented and used define the nature and scope of the environmental policy problem. Part I devotes considerable attention to the concept of “sustainable development” and describes the role of international treaties in the United Nations framework for global environmental policy.

**Part II: Environmental Impact Assessment, Decision-Making, and Environmental Management Systems** – Parts II and III introduce a wide assortment of underlying tools and principles that are essential in crafting well thought out policies. Part II provides an in-depth examination of the EIA process and its

importance in defining and shaping environmental policy. An entire chapter is devoted to describing the theory and psychological factors effecting decision-making, including the under-emphasized role that human subjectivity and biases play in any decision-making process; it detail how biases often unknowingly lead to faulty environmental and NEPA decisions. The book also illustrates how environmental management systems can play a key role in ensuring that decisions are correctly implemented.

**Part III: Environmental Ethics and Economics** – Ethics and economics are closely related because they are both essential in understanding who and how various entities benefit from different policy decisions. Part III examines the underlying ethical and economic factors governing virtually all aspects of environmental policy formulation. An entire chapter on environmental economics and economic models is examined; the vital role that “external costs” play in shaping informed decision-making are explained. Economic dilemmas and paradoxes are explained. It also explains why classical economic theory sometimes fails to address environmental problems. A chapter on ethics examines various views of what constitutes ethical environmental policies.

**Part IV: Critical Global Environmental Issues** – Once the reader has mastered essential concepts, principles, and tools for crafting environmental policies, the final section shows how they can be applied to various policy issues. Entire chapters are devoted to the following critical environmental policy issues: water scarcity, food scarcity, Peak Oil and fossil-fuel energy, global climate change, and human population growth.

### Audience

The book is written towards policymakers, NEPA and environmental practitioners, and students. Upon completion, professionals and students alike should be able to take a realistic policy problem, evaluate using the concepts, principles, and tools described throughout the book, and develop a pragmatic policy solution to that problem.

The text is ideal use in environmental and engineering curricula. Each chapter begins with a lucid case study and ends with a problem set; most of the questions in the problem set are designed to elicit critical thinking over rote memorization. To this end, the book finishes with two capstone problems. These problems involve consideration of nearly every major concept and principle presented in the book.



## NAEP Launches New Committee Structure

by *Ron Deverman*

### Background and the Journey

In recent years, under the leadership of the NAEP Executive Committee and Board of Directors, we have moved confidently forward with our strategic initiatives: refining our association's national identity, growing our relationships with NAEP chapters, and providing enhanced benefits to our members at every level of our association and affiliated chapters. We have been engaged in an amazing journey to create a more enduring, meaningful and productive future together as environmental professionals. In July 2011, we decided to form a task force to review and evaluate the accomplishments, successes, and working structure of our existing committees and working groups. The result of that "hard look" review was a dynamic initiative to restructure our 30 existing committees and working groups into eight national committees that accomplish the same products and services for the association and better nurture the cross-cutting professional dialogue we need as we face the environmental challenges of the 21st century.

The Executive Committee especially commends the fine work that so many talented NAEP members have accomplished for the association over the years as they stepped up to serve and be leaders of our committees and working groups. Having been involved in this association over 22 years, I know from first-hand experience that NAEP includes the best minded, most heartfelt and experienced professionals in the country. We have never been short of talent, creativity and energy. And we are confident our new Committee structure better focuses this talent into more unified, energized groups of committed, hard-working leaders and NAEP champions. We believe our eight national Committees will effectively serve the association well into the future, be more effectively supported by our national office, and demonstrate NAEP's passion for the environmental professions and our deep sense of community within the professional relationships we create.

### The New Committees

One focus of NAEP's mission is "...developing the highest standards of ethics and proficiency in the environmental professions." This mission is exemplified in the work of our national Committees. The eight new Committees listed below include

the interest/practice areas, focus of the Committee, and leadership contact information. We encourage all NAEP members to seriously consider getting involved in a Committee that excites you and holds similar professional interest for you and your career growth.

**Education** – The Education Committee focuses on providing training and education opportunities through our NAEP webinar series, career development seminars, and our national/international dialogues and exchanges. It is committed to promoting the growth and advancement of environmental professionals by providing education for NAEP professionals, student members, affiliate Chapter members and other environmental professionals. Our training addresses environmental skills and proficiency with respect to applicable statutes and environmental regulations, standards of conduct and ethics. Wherever possible, such training and dissemination of information considers the results of environmental litigation, and cutting edge scientific research. The Education Committee is led by Marie Campbell, Chair, [mcampbell@sapphosenvironmental.com](mailto:mcampbell@sapphosenvironmental.com); John Esson, Co-Chair, (career development) [eccinfo@environmentalcareer.com](mailto:eccinfo@environmentalcareer.com); and Roger Turner, Co-Chair, (international interests) [rwtturner@hotmail.com](mailto:rwtturner@hotmail.com).

**Membership** – The Membership Committee recommends strategies for enhancing NAEP membership for all of our member categories and affiliated Chapters. The Committee continually evaluates our current services and benefits through member surveys to ensure our members' needs are met. It develops member incentives and creates new benefits that help retain members and add value to their professional careers. We are always looking for energetic professionals who are excited, talented and interested in serving people. The Committee also coordinates the membership meeting at our annual conferences. If you would like to learn more about getting involved in this Committee, contact the Membership Committee Chair Ron Lamb at [ronald.e.lamb@usmc.mil](mailto:ronald.e.lamb@usmc.mil).

**Awards** – Our Awards Committee is the benchmark of professional accomplishment and environmental achievement. For decades NAEP has recognized the efforts of hard-working and ambitious professionals, practitioners and students in the environmental fields through our Environmental Excellence, Zirzow, and Fellows awards, and the Jim Roberts Scholarship. This



## New Committee Structure *Continued from page 13*

Committee builds upon the success of our four award venues to strengthen and enhance NAEP's overall awards program. The Lynton Caldwell Award is the newest NAEP award that was launched two years ago with the plan to be awarded periodically when some professional, agency or organization has exhibited exemplary service to NEPA practice. As with all of our volunteer Committee efforts, additional professionals are needed and always welcome. This is especially true for the Zirzow and Fellows awards and Jim Roberts Scholarship. Our Awards Committee is led by Bob Cunningham, Chair, [rc triumph@gmail.com](mailto:rc triumph@gmail.com); Audrey Binder, Co-Chair, (Fellows & Zirzow) [Binder.Audrey@epamail.epa.gov](mailto:Binder.Audrey@epamail.epa.gov); and Gary Kelman, Co-Chair (Jim Roberts Scholarship) [gkelman@mde.state.md.us](mailto:gkelman@mde.state.md.us). Contact them to express your interest in joining.

**Conference** – The Conference Committee is committed to ensuring the continued successful planning, implementation, and conduct of NAEP's Annual Conferences well into the future. This Committee is led by Lynn McLeod and is comprised of Permanent Conference committee members and members of several Annual Conference planning committees. The leaders and members of the Conference Committee work together to successfully plan and run each Annual Conference. The Permanent Conference committee assists NAEP by planning the location for future conferences, identifying technical conference chairs, and making recommendations on conference conduct to ensure NAEP's Annual Conference maintains its high professional standards and integrity. Annual Conference members focus on ensuring that its conference is technically current and interesting to the NAEP membership as well as the environmental professions at large. The upcoming 2012 Annual Conference, May 21-24, "Science, Politics, and Policy: Environmental Nexus" is led by Jennifer Lundberg, [JLundberg@parametrix.com](mailto:JLundberg@parametrix.com).

The Annual Conference Committees for 2013 (Los Angeles, CA) and 2014 (Tampa Bay, Florida) are especially interested in hearing from NAEP members who would like to assist in the planning of these conferences. If interested in being a Track or Session Chair, or if you would like to assist in identifying key note speakers, training, or other activities, feel free to contact Michael Smith, [MSmith2@icfi.com](mailto:MSmith2@icfi.com), regarding the 2013 Conference and Bruce Hasbrouck, [bhasbrouck@fallerdavis.com](mailto:bhasbrouck@fallerdavis.com), regarding the 2014 Conference. If you are interested in being a future Technical Committee Chair, please contact the Conference Committee Chair Lynn McLeod [mcleod@battelle.org](mailto:mcleod@battelle.org).

**NAEP Operations** – The Operations Committee handles the administrative activities of NAEP, such as Board elections, developing the Association budget, and other finance matters and audits. The Committee has initiated new efforts for board succession planning and new board member training. NAEP members can volunteer to assist on both the elections and financial aspects of this Committee. The Operations Committee is led by NAEP's current Vice-President Harold Draper. He can be reached at [hdraper@burnsmcd.com](mailto:hdraper@burnsmcd.com).

**Chapters Committee** – The Chapters Committee provides support and exemplary leadership to our NAEP affiliated Chapters at the multi-state, state, or regional level, and our student Chapters that are affiliated with a specific college or university. Members of the Chapter Committee consist of the affiliated Chapter representatives and presidents and for the student Chapters the representative and faculty advisor from affiliated colleges and universities. The NAEP Chapter Committee is chaired by NAEP Champion Bill Plumpton, [wplumpton@gfnet.com](mailto:wplumpton@gfnet.com) and Co-Chairs Nancy Favour, [nlfavour@gmail.com](mailto:nlfavour@gmail.com), and Brock Hoegh (student chapters) [bahoegh@HNTB.com](mailto:bahoegh@HNTB.com).

**Environmental Policy** – The Environmental Policy Committee is NAEP's most dynamic, cross-cutting national Committee. It is comprised of four focus areas of professional interest: NEPA Practice, Transportation, Energy, and Sustainable Systems. The Committee plays a lead role in keeping NAEP membership informed of important legislative and regulatory changes and their potential impacts on the environment and it serves to highlight best practices for all environmental professions. The Committee also informs environmental professionals on important energy issues and environmental policies, regulations, and legislation. Through the work of this Committee, NAEP members gain a broader appreciation of the value of NEPA and the NEPA process while more confidently understanding the role of the federal government in addressing social, economic, and environmental issues in project development. The Environmental Policy Committee is currently Co-Chaired by Lisa Mahoney, [lisamahoney@clarkgrouppllc.com](mailto:lisamahoney@clarkgrouppllc.com), and Judith Charles, [judith.charles@yahoo.com](mailto:judith.charles@yahoo.com), with support from practice leader Valerie Birch [birchv@pbworld.com](mailto:birchv@pbworld.com). Contact them to get involved in this energetic and productive Committee.

**Communications** – The Communications Committee enhances NAEP's national identity and in a large way is the Association's public voice through our external relations with federal and



## New Committee Structure *Continued from page 14*

state environmental agencies and other national environmental associations. The Committee's work includes internet marketing and interface (Facebook, LinkedIn and NAEP's website) as well as overseeing our three nationally recognized publications: the NAEP E-News, the peer-reviewed quarterly journal, *Environmental Practice*, and the NAEP National Desk. These publications present the brightest ideas and best practices this country's environmental professionals have to offer and *Environmental Practice* is now circulated internationally. The Communications Committee is chaired by Carolyn Henn, [chenn@apexc.com](mailto:chenn@apexc.com), with publications support from Paul Looney, [plooney@volkert.com](mailto:plooney@volkert.com), and our EP Managing Editor Dan Carroll, [DCARRO17@depaul.edu](mailto:DCARRO17@depaul.edu).

## The Call to Action

The work of our eight national Committees is the strength and underpinning of our successful Association. From my experience I know that strong friendships and affiliations begin by being a vital part of our Committee work; it advances us

personally and professionally. I believe each individual reading this article will find value in our professional interactions, our connectedness and our mutual interests that are so ably realized in our Committees. The work and products created from our NAEP professionals have resulted in stronger, more mutually-beneficial relationships with agencies/associations throughout the U.S. and have provided increased benefits to every NAEP member at every level of the Association, especially our affiliated Chapters.

Leadership begins with how we shape and create our future and the future of those we lead. The fruit that our national Committees currently produce include the NEPA Annual Report, Quarterly Policy Reports, the E-News (bi-monthly newsletter), the quarterly journal *Environmental Practice*, the NAEP National Desk, NAEP webinars (at least six a year), Annual Conference, NAEP website (soon to be redesigned), Facebook page, and the NAEP LinkedIn group. As NAEP members and professionals, we all benefit from these publications and interactions because through them we become better informed and lead more enhanced lives. Come join us in our amazing journey.

## Take Part in the 2012 National Environmental Employment Survey

The National Association of Environmental Professionals ([NAEP.org](http://NAEP.org)) and the Environmental Career Center ([EnvironmentalCareer.com](http://EnvironmentalCareer.com)) are jointly conducting the 2012 National Environmental Employment Survey at <https://www.surveymonkey.com/s/EnvironmentalEmploymentSurvey>. This comprehensive online survey looks at both hiring needs of employers and challenges that job seekers have in securing an environmental job.

What are your views regarding environmental employment within your organization (employers) or in your chosen profession (job seekers)?

Your answers to this survey will provide valuable information to help us all better understand the environmental job market and what it takes to succeed.

We will provide a sneak peak at the survey results to date at the NAEP Annual Conference during the Green Careers Seminar on May 22. The National Environmental Employment Report will be available through [www.NAEP.org](http://www.NAEP.org) and [www.EnvironmentalCareer.com](http://www.EnvironmentalCareer.com) shortly thereafter.

Take part in this important environmental employment survey **now!** The survey closes May 31.



## Member Spotlight: Wendy Haydon



**I**t took many years for Wendy to decide that the environmental field was her work passion. In high school, she knew she would attend college, and when it was time to go, she struggled to find the right major. Business? Geology with a specialty in Seismology? Those majors did not pan out, so at the advice of a college career counselor, Wendy spent the summer perusing the California State University Sacramento catalog to find out which major was of interest. Aha! Environmental Studies sounded like the

ticket!! It took Wendy much longer than the 4 or 5 years to find her passion and then finish college – she met that goal by finishing with a B.A. in Environmental Studies, and then completing her M.S. in Recreation Administration.

While in college, she had worked part-time at several non-environmental jobs to support herself. Then late in her undergraduate college career, she worked at two environmental consulting firms (Resource Management International and EDAA), and became familiar with the pace and intensity of the work and she loved it! She also began cultivating her love of travel and becoming involved in non-profit organizations that were geared toward the environment, and then later for women and children.

To gain experience, she then went to work for Dames & Moore, and then moved on to CH2M HILL (<http://www.ch2m.com>), her current employer, where she has worked for over 21 years. The years have flown by! The work is varied, which she loves, and the people are very talented. Over the years, she has created a network in the company that allows her to work on a variety of projects (including energy, water, wastewater, and transportation) in various locations. Her most recent work experience is in infrastructure — water storage and conveyance systems, power plants, electrical transmission lines, and a gas pipeline.

She specializes in writing environmental documents pursuant to the California Environmental Quality Act (CEQA) and the National Environmental Policy Act (NEPA). These projects have taken her to many locations in California, as well as Nevada, Washington, Idaho, Utah, Georgia, and Kyrgyzstan. She is

a Project Manager guiding and directing work, and her resource specialties are visual resources and land use.

One CH2M HILL work assignment in 2005 took Wendy out of her comfort zone – it was very different than writing environmental documents! She had the great privilege of doing Hurricane Katrina relief work for 25 days that October. She was sent to New Orleans East (one of the hardest hit areas) and lived and worked at a Folgers Coffee Plant. CH2M HILL was tasked with providing potable water to the Plant, the 165-trailer city that was set up at the Plant, and a second Folgers Coffee Plant that was located about 8 miles away. Wendy was a Water Tanker Person who provided backup water to the Plant and the trailer city, working a 12-hour shift from 7 p.m. – 7 a.m. every day that she was there. It was high pressure work with high excitement, it was exhausting, and it was very gratifying.



Figure 1: Sitting atop one of the water tanks – New Orleans East.

When not working, Wendy has found ways to combine her non-work passions of travel and experiencing other cultures, learning, and volunteer work. Each year, Wendy participates in 5K walks to raise money and awareness for various worthy organizations including the WESpark Cancer Support Center (<http://wespark.org>), the National Kidney Foundation (<http://www.kidney.org>), and the American Heart Association (<http://www.heart.org>). In addition to doing walks locally, the walks sometimes take her to other locales: Oregon, Maine, Mon-

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## Wendy Haydon

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Figure 2: In Montreal, Canada at the Soroptimist Convention with her Nigerian friends.



tana, Massachusetts, Colorado, and southern California! She does volunteer work for the local Sacramento, California Make-A-Wish Foundation (<http://www.wish.org>) and the American Heart Association; is a member of People to People International, participating in their travel and volunteer work programs (<http://www.ptpi.org>); and is a Soroptimist. Soroptimists are a worldwide group of business and professional women who work on projects to improve the lives of women and children (<http://www.soroptimist.org>).

Wendy enjoys volunteer work. As a Soroptimist, Wendy's most recent work was to collect pajamas and other clothes for

boys who live at the Sacramento Children's Home, and also to obtain donated silent auction items as well as the beverages needed for the Soroptimist Crab Feed fundraiser in late February 2012. The fundraiser was a success – with about 420 attendees! Profits from the event are earmarked for a Sacramento County foster youth program. Wendy also had the wonderful opportunity of meeting Soroptimist friends from around the world in Montreal at the Soroptimist Convention in July 2011....women who work tirelessly to improve the lives of others!

In May 2011, Wendy attended the PTPI Conference in Kansas City, MO, and did a community service project: the group assembled 1,370 school supply bags for Operation International Children, an organization that delivers school supplies overseas so that the U.S. military can deliver them to the children in war-stricken countries including Iraq, Panama, and Haiti.

Figure 3: PTPI group that assembled school supply bags for Operational International Children

Later in the year, Wendy joined PTPI again, this time in Brussels, Belgium for another PTPI Conference and to do volunteer work that ranged from feeding the homeless in the Metro to painting walls, doing yard work, and building a fence – all at different facilities spread throughout the City. Wendy's work group cleared brush and helped to build a fence at a shelter. In 2012, Wendy hopes to travel to Estonia with PTPI for the conference and volunteer work that will occur there.

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Figure 3: PTPI group that assembled school supply bags for Operational International Children



## Wendy Haydon

Continued from page 17

Wendy is a member of Women's Empowerment International (WE - [www.womenempowerment.org](http://www.womenempowerment.org)) and enjoyed her opportunity to travel to Honduras in 2011 to visit several groups of local women who operate small businesses to support their families, using money that was loaned to them from WE and its local Honduran partner, the Adelante Foundation. Wendy had the honor of chronicling the trip and reporting on it in WE's newsletter.

On the work front, in addition to being a NAEP member, Wendy is also a member of the Association of Environmental Professionals (AEP – in California [<http://www.califaep.org>]) and the International Association for Impact Assessment (IAIA - [www.iaia.org](http://www.iaia.org)). She enjoys learning about environmental issues, impact assessment methods, and projects that are being proposed and evaluated in other countries. She has attended several IAIA conferences around the world in which 90+ countries were represented.



Figure 4: The PTPI group that did yard work at a shelter in Brussels, Belgium.

Whether it be a conference hosted by NAEP, AEP, IAIA, PTPI, or New Partners for Smart Growth, the greatest gifts that Wendy obtains by attending those events is the positive energy that is generated there, as well as knowing that good work is being done, giving hope for a better world.

In addition to being on the NAEP Board (Wendy was elected as an at-large Board member in 2011 and her term will be complete in 2014 – she's now nearing the end of the first year of her term), Wendy is Board Secretary of the Superior California chapter (in Sacramento, California) of AEP (<http://superioraep.org>); is on the 2012 AEP Conference planning committee; and is on the Board of the Soroptimist International of Sacramento (<http://soroptimistsacramento.com>).

For NAEP, Wendy is involved in several areas: the Permanent Conference Committee, the Committee Restructuring Group, and is assisting in other tasks, as needed. She is learning her way in the organization, and looks forward to becoming more involved.

Wendy just completed the American Heart Association's Start Training 2012 Program. It was a 12-week program in which the American Heart Association team trains for walking or running a half marathon, while raising much-needed funds for the American Heart Association. The team participated in the American River Parkway Half Marathon in Sacramento, California on April 28th. Wendy completed the walk - woohoo! The team's fundraising for the American Heart Association continues through May 31st. If you'd like to sponsor Wendy, the American Heart Association appreciates all donations! For more information, go to <https://www.kintera.org/faf/donorReg/donorPledge.asp?event=998669&supId=56692312>

When asked to sum up her life, her passions, and how interconnected her seemingly diverse interests are, Wendy replies, "We need healthy bodies, we need smart growth planning to foster walkable and sociable living environments, we need to appreciate and protect our environment, and we need to understand other cultures and promote peace and understanding — everything is connected — I want to be a part of it all!"

## Environmental Practice — Call for Papers

EP vol. 14 no. 4 will focus on Hydrofracturing. Submissions are due by May 15, 2012. Please click the link below to view the call for papers.

<https://naep.memberclicks.net/assets/ep14.4callforpapers.pdf>



Portland Hilton  
Downtown

*May  
21 – 24,  
2012*

Portland,  
Oregon

*National Association of Environmental Professionals*

## *NAEP's 2012 Conference Goes Interactive*

### *NAEP 37th Annual Conference*

**H**ave you ever wanted to know if your audience actually knew what you were talking about or wanted to let the speaker know what you really think? NAEP is excited to announce a partnership between Turning Technologies and the 2012 Annual Conference. We entered into this agreement to provide the membership with experience using audience participation technology and to bring new technology to NAEP members.

Audience polling will occur during individual presentations as well as at the end of each breakout session. The audience response system integrates into PowerPoint presentations and allows attendees to participate in presentations or lectures by submitting responses to interactive questions using hand-held/computer device.

Audience participation software is being used in education, meetings, and conferences around the country. It is becoming the tool of choice in our industry for public meetings to better gauge the public's opinion of a project. Whether the results are shown in real time or tabulated later, we're all better informed when everyone has a voice.

So join us for this historic first for NAEP and make your thoughts known. There is still time to register at [www.naep.org/2012-conference](http://www.naep.org/2012-conference).





## Introduction to Incoming Board Members

*NAEP held Board Member Elections in December 2011 and we want to congratulate the four winners. The newly elected Board Members will assume office in May 2012 and their term will end at the 2015 Annual Meeting. Please take time to review the information on these newly elected NAEP Leaders. In future issues we will be introducing you to the outgoing and returning Board Members. NAEP exists to serve the members and the driving force behind all of the work are the dedicated volunteers.*

### Courtney Arena



Courtney Arena  
Senior Environmental Scientist  
Stanley Consultants, Inc.  
West Palm Beach, Florida  
Direct: 561-584-8756  
Main: 561-689-7444  
Email: [arenacourtney@stanleygroup.com](mailto:arenacourtney@stanleygroup.com)  
[www.StanleyConsultants.com](http://www.StanleyConsultants.com)

After graduating from UNC Wilmington with a degree in Marine Biology, Courtney's first position was with South Carolina Department of Natural Resources – Marine Resources Division. Driven by thirst her knowledge, it wasn't long before she decided to attend graduate school in Florida and earned an M.S. at Nova Southeastern University's Oceanographic Center. While attending graduate courses at night, Courtney worked as a laboratory analyst at Florida Spectrum Environmental Services, Inc., where she conducted and supervised environmental sampling and testing for water and soils including microbiology, nutrients, and organics extraction and analysis. Carnival Cruise Lines Department of Environmental Health & Safety sponsored her graduate research in ballast water treatment and provided an internship in their Miami office, where she worked for two years. Here, she conducted thesis research and studies on their vessels for water quality assessments and ballast water treatment and published an article in the Journal of Marine Design and Operations.

Today, Courtney is a Senior Environmental Scientist with Stanley Consultants. Her first assignment was working on-site for three years at the South Florida Water Management District in the Water Quality Division. Following that, Courtney completed the Florida Master Naturalist Program. Currently, with 13 years of professional experience, she provides support for Stanley Consultant's three Florida offices for a variety of projects related to engineering design and environmental studies. This includes environmental resource permitting, resource identification and field evaluations, impacts assessment, and alternatives analysis for a variety of projects related to water resources engineering and transportation infrastructure. Courtney also leads NEPA studies for FDOT. Her environmental expertise extends to marine and estuarine resource identification and delineation, wetlands identification and delineation, protected species, traffic noise analysis, air quality analysis, water quality analysis, contamination screenings and NEPA documentation.

In 2008, Courtney began her service to the FAEP as a Director on Treasure Coast Chapter Board. She also served as Secretary and Vice President of this Chapter during the four years on the local Board and as the Chapter Representative on the FAEP State Board. Recently, Courtney joined the South Florida and Southwest Chapters of the FAEP. For the 2011 FAEP Annual Conference held in West Palm Beach, FL, she led on the Sponsorship and Speaker Committees and was heavily involved in planning and implementing this successful event for the Chapter. Courtney intends to continue to be active in the FAEP, where she has been implementing the NAEP webinars as part of the local Chapter events. She looks forward to the opportunity to become more involved with NAEP as an At-Large Board member.

Through her participation in NAEP, she intends to help build a stronger presence in South Florida and the Treasure Coast for the organization by locally promoting, coordinating and implementing NAEP events. In doing this, she would like to bring some of our key professional environmental leaders to NAEP for information sharing and for professional recognition within the environmental community at large.



## Board Members

*Continued from page 20*

### David Dickson



David Dickson  
Senior Project Scientist  
Cardno ENTRIX  
Tallahassee, Florida  
P: 850-681-9700  
C: 850-509-2703  
E-mail Address:  
[david.dickson@cardno.com](mailto:david.dickson@cardno.com)  
<http://www.cardnoentrix.com>

David has more than 20 years of experience as a natural resource professional who specializes in the assessment of ecosystems. He is currently a Senior Project Scientist for Cardno ENTRIX in Tallahassee, Florida; and, his responsibilities include project management and business development. Typical projects include mitigation banking, listed species reviews, ecological due diligence, impact assessments, NEPA documentation, environmental permitting, and ecosystem restoration. His business development role involves cross-marketing a diverse array of other environmental services such as watershed assessments, brownfields, alternative energy, carbon credits, stormwater permitting, natural resource economics, and natural resource risk assessments. This role allows David to interact with a broad range of scientists, public sector and private clients, as well as multi-disciplined consultants.

David has served as the chairman for the Wetland Restoration/Mitigation Track for the 2010, 2011, and 2012 National Conferences and participated in the mitigation banking panel discussion that was a part of the 2010 conference. His initial involvement in NAEP dates back to 1995. At the local level, he is the Treasurer for the Tallahassee Area chapter. He was elected to the Board during the inaugural election of the chapter that was re-started in April 2011. As a Board member, David is working to make the chapter a strong resource for the regional environmental practitioners in the Tallahassee area, to increase membership in the State and local chapters, and to establish partnerships with Florida State, Florida A&M and Tallahassee Community College.

David is committed to making NAEP an essential unbiased resource for environmental practitioners. He will bring his passion for education, both in learning and sharing informa-

tion, to the board and organization as a whole. His objectives are to continue growing NAEP as an organization where ideas and thoughts on the latest challenges, trends, and regulations are shared and to develop additional forums for interaction between members. Additionally, he wants to expand access to environmental educational programs. David will work with the board, committees and affiliated chapters to maintain the existing programs and increase the diversity.

### Bill Plumpton, CEP



Bill Plumpton, CEP  
Vice President  
Gannett Fleming, Inc.  
Harrisburg, Pennsylvania  
P: 717- 763-7212 ext. 2142  
E-mail Address: [wplumpton@gfnet.com](mailto:wplumpton@gfnet.com)  
[www.gannettfleming.com](http://www.gannettfleming.com)

Bill has more than 20 years of experience in the consulting industry managing the preparation of preliminary design, the NEPA process and documentation, and the preparation of permit applications for a wide variety of federal agencies and actions across the country. Bill is an environmental planner and vice president of Gannett Fleming, Inc. in Harrisburg, Pennsylvania and leads the efforts of professional engineers, scientists, planners, GIS analysts, and technicians.

Bill has been a member of both NAEP and PAEP since 1989. For NAEP and PAEP, he served as the PAEP Chapter Representative to the NAEP board of directors from 2006 to 2011. For NAEP, he served as the Chapters Committee vice chair from 2007 to the spring of 2011. He is currently serving as the chair of the NAEP Chapters Committee and as a member of the NAEP Finance Committee.

By serving as a member of the NAEP board of Directors, Bill will work to support NAEP's current initiatives started in recent years to further the NAEP brand and offerings. His overarching objectives for NAEP are to increase membership, increase diversity of membership, and continue to improve exist-

*Continued on page 22*



## Board Members

*Continued from page 21*

ing benefits. He would like to see NAEP promote its corporate membership category and make it easier for corporate members to join and renew memberships. Bill will also work to make it easy for the membership to see the opportunities that exist to become more active in both NAEP and chapters. As the chair of the chapters committee, he will continue to promote and advance the NAEP – chapter relationship by continuing to improve communication, working to create new chapters where chapters currently don't exist, and exploring joint NAEP – chapter activities where both can share in program development and revenue.

### Lijin Sun, Esq.



Lijin Sun, Esq.  
Environmental Compliance Specialist  
Sapphos Environmental, Inc.  
Pasadena, California  
P: 626- 683-3547 ext. 154  
E-mail Address:  
[lsun@sapphosenvironmental.com](mailto:lsun@sapphosenvironmental.com)  
[www.sapphosenvironmental.com](http://www.sapphosenvironmental.com)

Lijin is an environmental compliance specialist with more than five (5) years of experience in CEQA / NEPA project management, compliance assessment, and documentation preparation. Lijin manages CEQA / NEPA projects and performs technical analysis, including fatal flaw analysis, feasibility analysis, energy consumption analysis, and air quality and greenhouse gas (GHG) emissions technical analysis. She also administers the company's membership with the Climate Registry to voluntarily report the company's annual GHG emissions.

Lijin is a member of both NAEP and the Los Angeles Chapter of the AEP (LA-AEP). She often participates in AEP CEQA training conferences and other GHG and energy-related conferences on behalf of the company. Lijin has prepared research and presentation materials on Climate Change and CEQA for the 2008 NAEP-AEP Annual Conference and presentation materials on the significance of climate change for

the 2008 Spring Advanced AEP CEQA Workshop. This work included research on the political and legal landscapes related to climate change at county, state, and federal levels, and recommended approaches to sea level rise and other climate adaptation concerns. Lijin is currently serving as the Legislative Liaison for the LA-AEP and is a member of the state AEP Legislative Committee.

By serving as a member of the NAEP Board of Directors, Lijin would like to provide the Board and NAEP members with her legal expertise in land use and environmental law. With more than five (5) years of experience in CEQA/NEPA compliance and project management, Lijin has a strong background in using science and regulatory compliance to making environmentally conscious business decisions. However, often time, there is an invisible gap between lawyers, environmental professionals, scientists, and engineers. Lijin sees herself as the liaison at bridging this gap using her knowledge and experience from both sides. Lijin is fluent in Mandarin and possesses a deep understanding of the U.S.-China relationship. She would like to be the liaison at bringing together environmental professionals from both countries to foster NEAP's presence in the U.S.-China dialogs in areas such as global climate change.

**Attention job seekers and employers**

**http:// Survey**

Help shape the future of the environmental careers industry. Take this opportunity to participate in the 2012 National Environmental Employment Survey.

go to <https://www.surveymonkey.com/s/EnvironmentalEmploymentSurvey>



## NAEP 2013 Environmental Excellence Awards Nomination Information

*Submission deadline date is August 15, 2012*

The National Association of Environmental Professionals (NAEP) is seeking nominations for our annual National Environmental Excellence Awards. We are requesting nominations from you, your company, or agency describing outstanding environmental contributions from applicable projects and programs. It is not necessary for you or your organization to be a member of NAEP and nominations may include projects or programs recognized by others. The Environmental Excellence Award nomination(s) are to be submitted to the NAEP Awards Review Committee and must be received by August 15, 2012. Award Winners will receive a beautiful award plaque and an invitation to briefly address participants at the Annual NAEP National Conference. The 2013 conference will be held in Los Angeles, California, April 1-5, 2013.

If you have any questions please call Abby Murray at 856-470-4521.

**The form can be found at the link below:**

<https://naep.memberclicks.net/assets/naep2013environmentalexcellenceawardnominationform.doc>

## Get your CEP — Save Thousands of Dollars

The Academy of Board Certified Environmental Professionals (ABCEP) has just partnered with American Public University (APU) to allow up to 6 transfer credits to those who hold the Certified Environmental Professional (CEP) credential. The value of these credits can substantially reduce the cost of a Masters of Science Degree in Environmental Policy and Management or can serve to offset elective credits in other Masters programs at APU.



*Certifying Environmental Professionals since 1979*

To find out the details, go to <http://www.apu.edu/TransferCredit/accepted/graduate/internal-policies/abc-env-prof.htm> or visit the ABCEP website: [www.abcep.org](http://www.abcep.org).

Some information on APU:

- It is the first, fully online university to receive the Sloan Consortium's (Sloan-C) Ralph E. Gomory Award for Quality Online Education (2009) and two-time recipient of the Sloan-C Effective Practice Award (2009-2010).
- APU has more than 150 degree and certificate programs as well as online courses to help with certifications and professional development in subjects ranging from Environmental Hazard Mitigation and Restoration (Grad Cert); Environmental Planning and Design (Grad Cert); Environmental Policy and Management (Capstone, MS); Environmental Risk Assessment (Grad Cert); Environmental Science with four concentrations (BS), Environmental Sustainability (Grad Cert); Environmental Technology (Undergrad Cert), Fish and Wildlife Management (Grad Cert, Undergrad Cert), Transportation & Logistics, Business Administration, Information Technology, and many others.
- APU's combined undergraduate tuition, fees and books are roughly 20% less than the average 4-year public university's in-state rates, helping to maximize your tuition assistance program. (The College Board, *Trends in College Pricing 2011*, October 2011.)
- APU will carefully evaluate prior learning, including eligible on-the-job learning, for the award of academic credit.

*This gives you another excuse to apply for your CEP today.*



## Environmental Science and Environmental Health Techs...

**NAEP** is requesting Occupation Expert Volunteers with experience as Environmental Science and Protection Technicians, Including Health to be available to assist Research Triangle Institute with an Occupational Update for the United States Department of Labor.

- Do you (or someone you know) work in the category Environmental Science and Protection Technicians, Including Health (by any job title)?
- Or perhaps you worked for at least a year as an Environmental Science and Protection Technician and/or an Environmental Health Technician in the past, and your current work involves supervising or training people to do this work?

If either of your answers is “YES,” then we need your help!

Please use the following description (not your job title), to decide if your work experience is relevant to this occupation:

O\*NET Standard Occupation Classification (SOC) 19-4091.00 Environmental Science and Protection Technicians, Including Health “Performs laboratory and field tests to monitor the environment and investigate sources of pollution, including those that affect health. Under direction of an environmental scientist or specialist, may collect samples of gases, soil, water, and other materials for testing and take corrective actions as assigned.”



The U.S. Department of Labor’s Occupational Information Network (O\*NET) is the nation’s primary source of occupational data, allowing millions of employers, workers, educators and students across the country see what it takes to perform in 900 occupations (including Environmental Science and Protection Technician, Including Health ). This information is provided free of charge to the general public at: [www.onetonline.org](http://www.onetonline.org)



A well-known nonprofit research organization, RTI International (also known as Research Triangle Institute), working with the National O\*NET Development Center, under a grant from the United States Department of Labor/Employment & Training Administration, is asking for help with an important national project to gather information describing the work that people do in over 900 different occupations.

Organizations endorsing the value of the O\*NET Data Collection Program:

- American Academy of Environmental Engineers
- American Association for Health Education
- American Society for Healthcare Engineering
- American Society for Horticultural Science
- American Society for Quality
- American Society of Certified Engineering Technicians
- Association of Environmental Engineering and Science Professors
- Association of Schools of Allied Health Professions
- Institute of Environmental Sciences and Technology
- National Association of Environmental Professionals
- National Environmental Health Association
- National Registry of Environmental Professionals
- Water Environment Federation





## Volunteer

*Continued from page 24*

If you meet the following criteria, we would like you to volunteer as a potential Occupation Expert for the O\*NET Data Collection program. We are looking for people with expertise in the occupation of Environmental Science and Protection Technicians, Including Health to answer some questions about the kind of work you do, and what it takes to do that work well. This is part of the O\*NET Data Collection program.

We are only currently looking for people who have work experience (current and/or past experience) which fits the specialty occupation 19-4091.00 Environmental Science and Protection Technicians, Including Health, as shown in the box above.

These occupations do not have the same primary work focus as Environmental Science and Protection Technicians, Including Health:

- 19-4031.00 Chemical Technicians
- 13-1041.01 Environmental Compliance Inspectors
- 17-3025.00 Environmental Engineering Technicians
- 19-2041.00 Environmental Scientists and Specialists, Including Health
- 19-4093.00 Forest and Conservation Technicians
- 47-4041.00 Hazardous Materials Removal Workers
- 19-4051.02 Nuclear Monitoring Technicians
- 29-9011.00 Occupational Health and Safety Specialists
- 19-1031.01 Soil and Water Conservationists
- 51-8031.00 Water and Liquid Waste Treatment Plant and System Operators

## Are You Qualified as an Occupation Expert?

IF you have 5 or more years combined experience: working as a Environmental Science and Protection Technician, Including Health (using the description in the box, above), and/or training others to work as Environmental Science and Protection Technicians, Including Health, and/or supervising Environmental Science and Protection Technicians, Including Health

AND at some point in your career you have worked for at least 1 year as a Environmental Science and Protection Technician, Including Health, based on the above description (regardless of your job title),

AND you currently work in one of the 50 U.S. states, and you would like an opportunity to represent your profession, nationally and confidentially,

THEN you are qualified! Please contact the O\*NET Data Collection Program to volunteer. To submit your name as a potential participant, please send an e-mail with the subject line "NAEP requesting OE Volunteers for Environmental Science and Protection Technicians, Including Health" to Charles Upchurch at: [cupchurch@onet.rti.org](mailto:cupchurch@onet.rti.org) by May 10, 2012 and include the following:

- Your full name:
- Your job title:
- Your company name (optional):
- Address (optional):
- City:
- State:
- Your daytime phone number:

*Continued on page 26*



## Volunteer

*Continued from page 25*

- Are you currently working as an Environmental Science and Protection Technician, Including Health?
- Even if you are no longer working as an Environmental Science and Protection Technician, Including Health, have you done that work for at least 1 year at some point in your career?
- Do you have a total of 10 years (or more) of experience working with, supervising, or training Environmental Science and Protection Technicians, Including Health which may have contacted you separately asking you to volunteer for this? If so, which one?

## What will happen if I volunteer?

O\*NET's Data Collection staff will randomly select from a list of people who volunteer to be contacted. Those who are selected from this list of possible Occupation Experts will receive an initial phone call to confirm your interest and verify your OE qualifications before we send you an information packet. Participants will be asked to fill out some short questionnaires about generalized worker characteristics, generalized work context and specific tasks which relate to the occupations of Environmental Science and Protection Technician, Including Health. Your name and contact information will not be shared with anyone outside of our Data Collection program staff. Your questionnaire responses will be strictly confidential and will be combined with others to represent Environmental Science and Protection Technicians, Including Health and your work, for the benefit of people who are trying to learn more about this important occupation.

In addition, each selected participant is offered an oak-framed Certificate of Appreciation and \$40 in cash from the U.S. Department of Labor as tokens of appreciation for their time and attention. Please note: only those who are selected and also agree to participate can receive these tokens of appreciation. Some volunteers will not be selected to participate, as mentioned above.

By volunteering to assist in these efforts, you will help the O\*NET database to accurately reflect the realities of the American workplace, and you will be doing your part to represent the occupations of Environmental Science and Protection Technicians, Including Health on behalf of the entire profession. Thank you in advance for volunteering!

Sincerely,

Charles Upchurch, O\*NET Data Collection Program

877-233-7348, Ext. 146 • [CUpchurch@onet.rti.org](mailto:CUpchurch@onet.rti.org)

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## Loss of a Colleague and Friend

It is with great sadness that we announce the passing of CTAEP Board Member, and friend, Randy Hankamer. Randy was an integral part of starting the CTAEP Austin Chapter and was well liked by all that knew him. Keeping with his wishes, a donation has been made by CTAEP to the Lady Bird Johnson Wildflower Center in Randy's honor. For more information please visit:

<http://wcfish.tributes.com/show/Randy-Hankamer-92575801>



## Chapter's Committee Report

The Chapter's Committee met in March and continued planning for the 2012 chapters retreat. We are in the process of collecting a couple of proposals from hotels in Las Vegas, comparing it to the proposal we have from a hotel in Kansas City, and working rapidly towards final decision on the location and timing for the chapter retreat.

In March, we also discussed ways to make the chapter committee meetings potentially more effective and increase participation. As a way to potentially increase participation, the group discussed changing the meeting time. For the next chapter meeting on April 26th, we will start the meeting at 5:00 Eastern time to see if a slight shift in the start time increases participation or makes it easier on those that are regular participants.

For the chapters committee meeting in April, we will start discussing scholarships – which chapters offer them and who may be thinking of having one in the future, ways to fund them, how they are administered, best practices, things not to do, etc.

The chapters committee will be meeting at the conference

on May 23rd from 5:00 – 6:00. Our annual gathering at the conference is a great opportunity to meet in person and is always an enjoyable time. Following the meeting, the chapters committee may have an informal group dinner. All are welcome to participate.

There is some growing interest in starting a chapter in North Dakota. If interested in being part of a North Dakota chapter, contact Bill Plumpton and let him know that you are interested; he will put you in touch with others.

A reminder that all Chapter Representatives and Presidents are members of the Chapter Committee and all are welcome to participate in committee meetings, even if you haven't participated previously.

If you have an idea or activity for the Chapter's Committee to tackle, interested in starting a chapter in a state or area presently without one, or have questions about the committee, contact Bill Plumpton, committee chair at (717) 763-7212 ext 2142 or [wplumpton@gfnet.com](mailto:wplumpton@gfnet.com).

When you're ready to further develop your team  
When you're ready to invest in your organization's future  
You are ready for American Public University

American Public University is ready to help your team succeed. We're a nationally recognized university with certificates and bachelor's and master's degrees for environmental science, policy, and management professionals – completely online. So your employees can take classes on their own time. And people are taking notice. 99% of employers surveyed would hire one of our graduates again.\*

When you're ready, visit [StudyatAPU.com/NAEP](http://StudyatAPU.com/NAEP)



\*APUS Alumni Employer Survey, January 2011–December 2011  
We want you to make an informed decision about the university that's right for you. For more about our graduation rates, the median debt of students who completed each program, and other important information, visit [www.apu.edu/disclosure](http://www.apu.edu/disclosure).



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Ready when you are.™



## *Looking for Career Advice from Top Environmental Experts?*

### *Register for a Complimentary Career Advice Three-Part Webinar Series*

**W**ith the current economic conditions and job market, Environmental Professionals need to stand out in order to compete for jobs or to advance their careers. Recognizing this challenge, the National Association of Environmental Professionals (NAEP) and American Public University (APU) are bringing together top academic leaders and subject matter experts to collaborate on a 3-part webinar series, helping educate environmental professionals on this highly informative topic of career preparation. Register today at [www.studyatapu.com/NAEP-Webinars](http://www.studyatapu.com/NAEP-Webinars) to learn critical skills that may help you shape the future of your career in this field!

NAEP and APU have selected some of the top environmental experts today to provide relevant and cutting-edge career advice that you can use to help you advance in your field. The caliber of the experts speaking at this webinar series really highlights both NAEP and APU as thought leader organizations in the environmental field as well as their legitimate interest and commitment toward helping drive professional advancements through career-relevant education.

Taking advantage of this career-advice webinar series is complimentary and is offered for registration on a first-come, first-served basis. Attendees will need to register separately for each webinar. For more information, please refer to the webinar descriptions below.

#### **Part 1 • Preparing to Stand Out — Wednesday, March 28, 2012 - 12:00 p.m. - 1:00 p.m. ET**

Long-time career professionals will share tips for navigating employment and application procedures for jobs in the federal and local government, as well as private and consulting firms. With the challenging economic environment today, employers have the opportunity to be extremely meticulous when it comes to selecting the perfect candidate from a pool of applicants that can often reach the 100's. Topics covered will include: simple application enhancements to help you stand out, resume submission best practices, self-assessment questions for finding the perfect job, relationship building tips, mastering the job interview, and demonstrating your qualifications beyond the resume and cover letter. Attendees will also get a “sneak peak” of the results of 2012 NAEP/ECC National Environmental Employer Survey revealing details on how best to enter or advance in an environmental career.

#### **Part 2 • The Perfect Resume — Wednesday, July 18, 2012 - 12:00 p.m. - 1:00 p.m. ET**

This resume-focused session brings experts to the table providing a deep dive on building a powerful resume. Attendees will hear perspectives from experienced HR and hiring managers as well as top career development experts in the industry who play active roles at the National Association of Environmental Professionals. Speakers will address the following: understanding the different needs between the federal and private sectors, documenting your key accomplishments, highlighting your daily responsibilities, appropriate use of language and grammar, using resume builder software and keywords, cover letter etiquette and formatting, and online resources for additional reference. An overview of the career services department at American Public University will also be provided.

#### **Part 3 • Leveraging LinkedIn to Land Your Next Job — Wednesday, October 17, 2012 - 12:00 p.m. - 1:00 p.m. ET**

Our tech-savvy panel will cover the ins-and-outs of how job hunters and employers utilize social media and how you can leverage LinkedIn to network your way to your next job. Topics to be covered include: strategies for job hunting, importance of networking, social media best practices, job boards and social media sites, how social media can help or hurt your search, participation in associations, chapters and communities, and managing your personal brand.

We invite you to join us to learn critical skills that will help you shape the future of your career in this field. Register today at [www.studyatapu.com/NAEP-webinars](http://www.studyatapu.com/NAEP-webinars)



*Academy of Board Certified Environmental Professionals  
Supports Professional Development Presentations at  
National Association of Environmental Professionals Annual Conference.*

## May 22nd • GET YOUR CAREER WHERE YOU WANT IT TO BE

Environmental professionals need to stand out in order to compete for jobs or to advance their careers. It is critical to stay abreast of the latest changes in regulations, technology, and best practices. Continuous professional development has always been essential for individuals who want to achieve high performance in environmental planning, management, and compliance.

READ MORE:

[http://www.abcep.org/e\\_comm/2012\\_presentations/ABCEP\\_AT\\_NAEP\\_CONFERENCE.html](http://www.abcep.org/e_comm/2012_presentations/ABCEP_AT_NAEP_CONFERENCE.html)

## May 23rd • A PROFESSIONAL'S BODY OF KNOWLEDGE

Environmental professionals must understand a broad range of scientific, social, and environmental concepts, terms, and principles. We also must be able to access and understand a large amount of useful, accurate, and current information if we are to carry out our activities effectively and professionally. What concepts must be understood? Where can the most useful and relevant information be obtained? READ MORE:

[http://www.abcep.org/e\\_comm/2012\\_presentations/ABCEP\\_AT\\_NAEP\\_CONFERENCE.html](http://www.abcep.org/e_comm/2012_presentations/ABCEP_AT_NAEP_CONFERENCE.html)

## May 24th • CEPs IN ACTION

Certified Environmental Professionals are working! This is a time when job openings continue to be scarce and competition is fierce. Staying in your current position or finding a job if you don't have one, is a daunting and nerve-racking task. Yet, there is something you can do to increase your value to your current employer or to a prospective one: become a Certified Environmental Professional (CEP).

READ MORE:

[http://www.abcep.org/e\\_comm/2012\\_presentations/ABCEP\\_AT\\_NAEP\\_CONFERENCE.html](http://www.abcep.org/e_comm/2012_presentations/ABCEP_AT_NAEP_CONFERENCE.html)



## Florida Association of Environmental Professionals Chapter Report

The Florida Association of Environmental Professionals ([www.FAEP-FL.org](http://www.FAEP-FL.org)) is comprised of the FAEP and eight local chapters. The local chapters enable the FAEP to remain active throughout the state of Florida, addressing issues that are of State, regional and local interests. The FAEP provides numerous monthly networking and educational sessions throughout the state via the Central ([www.CFAEP.org](http://www.CFAEP.org)), Northeast ([www.NEFAEP.org](http://www.NEFAEP.org)), Northwest ([www.FAEPNWFL.org](http://www.FAEPNWFL.org)), South ([www.SFAEP.org](http://www.SFAEP.org)), Southwest ([www.SWFAEP.org](http://www.SWFAEP.org)), Tallahassee ([www.sites.google.com/site/faeptallahassee](https://sites.google.com/site/faeptallahassee)), Tampa Bay ([www.TBAEP.org](http://www.TBAEP.org)), and Treasure Coast (<https://sites.google.com/site/tccfaep/>) Chapters. To see a list of upcoming events, please visit the local chapter website or visit the Happenings” section on the FAEP website for a full list of events throughout the state. Highlights from the FAEP local chapters include:

### Central Chapter

*April 19, 2012* – The Central Florida Chapter of the FAEP will be hosting a lunch presentation at Leu Gardens in Orlando from 11:30-1:00. The guest speaker will be Eric Olsen with Hopping Green & Sams who will provide an overview of environmental related legislation that passed the 2012 Florida Legislature.

*April 26, 2012* – The Central Florida Chapter of the FAEP will be hosting a Social Event at Shipyard Brew Pub, Winter Park from 5:30-7:30. For information about these events and other Central Chapter news, please visit [www.cfaep.org](http://www.cfaep.org).

### Northeast Chapter

*April 12, 2012* - The NEFAEP Chapter is hosting Ms. Rebecca Johnson with the University of North Florida’s Career Services Department. The topic is “The Best Resource Your Company is NOT Tapping: The How and Why of Internships.” The lunch will be held at the NE Florida Safety Council (1725 Art Museum Road, Jacksonville, FL). Ms. Johnson, SPHR, is a senior-level human resources professional with a wide array of employment law and leadership experience. Ms. Johnson uses her

years of professional exposure to internal and external recruiting processes to employers who are interested in students and alumni from the College of Computing, Engineering, and Construction in achieving their recruitment goals. Lunch will be provided. Cost for lunch and monthly meeting is \$10 for current members and \$13 for non-members. Fees will be accepted at the meeting. Please RSVP by April 10 to [rsvp@nefaep.org](mailto:rsvp@nefaep.org). For information about the Northeast Chapter, please visit [www.NEFAEP.org](http://www.NEFAEP.org).

### Northwest Chapter

The Northwest Chapter of the Florida Association of Environmental Professionals will host the Florida Association of Environmental Professionals 2012 Annual Conference on Friday, September 21, 2012 in Pensacola, Florida. Abstract Categories are Water Quality, Air Quality, and Land Use. We are seeking presentations that address the bulleted items under each category. For information about the Northwest Chapter and our upcoming speakers for 2012, please visit [www.FAEPNWFL.org](http://www.FAEPNWFL.org).

Click the link below to access the Call for Abstracts: <https://naep.memberclicks.net/assets/nwfaepenvironmentalsymposium-callforabstracts2012.pdf>

### South Florida Chapter

For information about these events and other South Florida Chapter news, please visit, please visit [www.sfaep.org](http://www.sfaep.org).

### Southwest Chapter

The SWFAEP is holding Board elections in April. For information about Southwest Chapter news, please visit [www.SWFAEP.org](http://www.SWFAEP.org)

### Tallahassee Chapter

*May 9, 2012* – Networking Social 5:30-7:00 PM Ray’s Steel City Saloon 515 John Knox Road Tallahassee, FL 32303-4117. RSVP to: [slewin@cfl.rr.com](mailto:slewin@cfl.rr.com)

*June 13, 2012* – Luncheon meeting Discussion on Statewide Environmental Resource Permitting with guest speaker Florida Department of Environmental Protection Deputy Secretary Jeff Littlejohn. The meeting will be held from 11:30 – 1:00. RSVP to Sheri Lewin at [slewin@cfl.rr.com](mailto:slewin@cfl.rr.com)

July 11, 2012 - Networking Social 5:30-7:00 PM at Ray’s Steel City Saloon 515 John Knox Road Tallahassee, FL 32303-4117



## FAEP

Continued from page 30

### Tampa Bay Chapter

*April 18, 2012* - The April lunch meeting will feature a presentation on Background “Contaminant” Concentrations in Soil, Determining Background and Implementing FDEP Guidance by Terry Griffin from Cardno TBE. We will meet at Brio at International Mall.

*April 26, 2012* - 5:30 PM - ? Networking event.

*May 16, 2012* - Lunch meeting. Location and speaker TBD.

*May 24, 2012* - 5:30 PM - ? Networking event. For information about these events and other Tampa Bay Chapter news, please visit [www.tbaep.org](http://www.tbaep.org).

### Treasure Coast Chapter

*April 18 2012* - “Seagrass survey methodology” Jocelyn Karazsia, with the National Marine Fisheries Service, who will review the best available science, seagrass survey windows for coastal development planning in Florida, BMPs for seagrass surveys and seagrass survey ID. In the planning stages is an in-water workshop that will follow on a separate day. To express interests or questions, contact Adrienne Carter [acarter@coastaleco-group.com](mailto:acarter@coastaleco-group.com).

*May 2012* – Our guest speaker is Ms. Melissa Meeker – Executive Director of the South Florida Water Management District. For information about these events and other Treasure Coast Chapter news, please visit our link on the FAEP webpage at [www.faep-fl.org](http://www.faep-fl.org) or on the TCC home page at <https://sites.google.com/site/tccfaep/>.



## Illinois Association of Environmental Professionals Chapter Report

President: Robert Sliwinski, Vice President/NAEP Representative: Greg Merritt, Treasurer: Christopher B. Burke, Past President: Nathan Quaglia, Board Members at Large: Ron Deverman (NAEP Past-President), Suzanne Frances, Dr. James Montgomery, Patrick VerHalen, Dawn Consentino, Liz Pelloso

Newsletter Editor: Eric Sikora,  
Executive Administrator: Debra Hatchett,  
Website: [www.iaepnetwork.org](http://www.iaepnetwork.org)

### Membership Update

IAEP currently has 139 members of which are 117 general, 8 national, 3 student and 11 are corporate.

### Recap of the March Brownfields Seminar

Mr. Robert Colangelo, President of the National Brownfields Association presented on the topic of brownfields and sustainability on March 30, 2012. Mr. Colangelo provided a national perspective of brownfield redevelopment in large cities

and how re-development varied between large cities and the perception of which big cities are becoming attractive to brownfield redevelopment.

### Recap of the Student Career Seminar



Fifteen students attended the annual student career seminar held at DePaul University on April 14, 2012. Students from DePaul, Northwestern, Loyola, University of Illinois, UIC (Chicago) and Roosevelt University attended the 3 hour seminar. IAEP Board members Robert Sliwinski, Ron Deverman, Suzanne Frances, Jim Montgomery, Liz Pelloso and Dawn Consentino attended and provided valuable advice to the students during break-out sessions.

### IAEP Upcoming Events

May 2 – U.S.Army Corps of Engineers – Regulatory Wetland Update. Cafe Zalute, Rosemont, Illinois

May 16 - USEPA Perspective of the New NEPA Efficiencies. Café Zalute, Rosemont, IL

June 15 - Environmental Justice Toolkit and Mapping, Christopher B. Burke Engineering, Ltd, Rosemont, Illinois



*Please Donate to the James Roberts Scholarship Fund*



*You may not have known him.*

*Yet you were certainly influenced by him.*

*Honor his legacy.*

*Donate to the James Roberts  
Scholarship Fund TODAY.*

**J**im Roberts travelled far and wide to espouse the worth of living an ethical life, including the way you performed your job. He lived the Code of Ethics and Standards of Practice for Environmental Professionals.

NAEP has developed the James Roberts Scholarship Fund to assist promising individuals while they are still in school. This is your opportunity to preserve and extend the legacy of Jim Roberts.

All donations are tax-deductible. Go to [NAEP.org](http://NAEP.org) and click Scholarship Foundations to make your contribution. You can also donate when you renew your NAEP membership.

Thank you,  
Gary F. Kelman, Chair

James Roberts Scholarship Committee  
Mel Willis  
John Perkins  
Bruce Hasbrouck  
Teri Hasbrouck





## Become a Certified Environmental Professional (CEP)

### OBTAIN THE RECOGNITION YOUR CAREER DESERVES:

- *Do you have an environmental certification? Good*
- *Does this environmental certification measure your experience and depth of knowledge, not just facts? Yes*
- *Does this environmental certification include an objective peer review of your abilities? Yes*
- *Is your environmental certification accredited by a third-party certifying body? Yes*
- *Then your environmental certification must be a CEP from The Academy of Board Certified Environmental Professionals (ABCEP).*



### Certification is available in five areas:

- Assessment
- Documentation
- Operations
- Planning
- Research/Education

Beginning in 1979, experienced environmental professionals were able to become certified through a comprehensive peer review addressing years of experience, responsibility, and knowledge. Certifications are nationally-recognized and available for a wide range of eligible professionals including:

- Federal/state/local agency staff - Consultants - Researchers - Compliance managers
- Enforcement officials - Activists

Initially offered as a certification through the National Association of Environmental Professionals (NAEP), the Academy of Board Certified Environmental Professionals (ABCEP) established organizational independence in 1993. In 1999 ABCEP became a nonprofit organization. In 2005, the ABCEP achieved accreditation by the Council of Engineering and Scientific Specialty Boards (CESB – [www.cesb.org](http://www.cesb.org))

The ABCEP CEP brings heightened confidence in the professional quality of documents, evaluations, and decisions. Certified individuals satisfy the professional requirements outlined by the USEPA, ASTM, and other regulatory agencies, providing assurance to employers and customers. For the individual, certification increases opportunities for promotions, marketability, and career advancement. Certified individuals maintain their knowledge, experience, and credentials through continuing education, teaching, mentoring, publishing papers, and complying with the Code of Ethics.

**Become a CEP-IT:** The ABCEP offers mentoring and a CEP-In Training (CEP-IT) designation to junior and mid-level professionals developing towards CEP eligibility. The CEP-IT increases individual and firm marketability, enhanced career opportunities, and enhanced networking opportunities.

**More Information:** Contact ABCEP at [office@abcep.org](mailto:office@abcep.org); [www.abcep.org](http://www.abcep.org); or 1.866.767.8073 Do you have an upcoming meeting and need a speaker? Speaker opportunities by CEPs about ABCEP are available in certain geographic locations.



Call for papers for publication in the scholarly journal:

## **Environmental Practice**

The journal of the National Association of Environmental Professionals

### **HYDROFRACTURING (“Hydrofracking”) vol. 14 no. 4 (December 2012)**

Hydrofracturing (“hydrofracking”) involves injecting water under high pressure into a bedrock formation via a wellbore. This process removes sediment and rock fragments from existing fissures and fractures and also increases their size and extent. While hydrofracking technology has been in use since the 1940’s, the refinement of the technology for horizontal drilling has recently gotten to the point where aiming a drill string toward a particular formation and depth has become more reliable. The combination of old and new technology has provided the environmental community with a real-time dilemma of how to provide for energy independence while protecting natural resources.

Manuscripts are sought with an emphasis on the legal, environmental, ecological, social, political and human health aspects of hydrofracking. Manuscripts highlighting case studies and best practices in all areas of hydrofracking are particularly encouraged. Specific topics and themes that could be addressed include, but are not limited to: (i) public policy efforts being pursued to minimize environmental damage resulting from hydrofracking; (ii) impacts of hydrofracking on groundwater and surface water resources; (iii) aspects related to the permitting of hydrofracking well site locations; (iv) impacts of hydrofracking and alternative/green energy development on terrestrial ecosystems; (v) critique or defense of USEPA’s new study plan to evaluate the effects of hydrofracking on groundwater; (vi) hydrofracking and NEPA – what is the role of environmental review? (vii) Hydrofracking is an extraction technique that was invented decades ago but which has suddenly exploded into the national consciousness. Why? Who or what is driving this narrative? (viii) If, as some suggest, natural gas is the ‘bridge’ to a green energy future and energy independence, is hydrofracking worth the cost?

**Deadline for submittals is  
May 15, 2012 to  
dcarro17@depaul.edu**

**Sample issues of the journal  
can be found at:**

[http://journals.cambridge.org/action/  
displayJournal?jid=ENP](http://journals.cambridge.org/action/displayJournal?jid=ENP)

**Guidelines for publication can be found at:**

[http://journals.cambridge.org/action/  
displayMoreInfo?jid=ENP&type=ifc](http://journals.cambridge.org/action/displayMoreInfo?jid=ENP&type=ifc)

The editorial office of  
*Environmental Practice* is located  
at DePaul University.

For questions, please contact  
Dan Carroll, Managing Editor, at  
773-325-2298, or by email at  
dcarro17@depaul.edu



## Florida Association of Environmental Professionals Northwest Chapter 2012 Annual Conference **CALL FOR ABSTRACTS**

The Northwest Chapter of the Florida Association of Environmental Professionals will host the Florida Association of Environmental Professionals 2012 Annual Conference on **Friday, September 21, 2012** in Pensacola, Florida. Abstract Categories are Water Quality, Air Quality, and Land Use. We are seeking presentations that address the bulleted items under each category.

### **ABSTRACT CATEGORIES:**

#### 1. Water Quality:

- Research and Development - should discuss current research and development being conducted or that has been conducted within the last 12 months. Presentation(s) should also discuss benefits of the R&D project and future objectives associated with it (i.e. implementation plan, future R&D).
- State Regulations
- Federal Regulations
- Overview of our current State and Local water quality conditions
- Water Quality improvement on our current conditions (solutions not just problems)

#### 2. Air Quality:

- Research and Development - should discuss current research and development being conducted or that has been conducted within the last 12 months. Presentation(s) should also discuss benefits of the R&D project and future objectives associated with it (i.e. implementation plan, future R&D).
- State Regulations
- Federal Regulations
- Overview of our current State and Local air quality conditions
- Air Quality improvements on our current conditions (solutions not just problems)

#### 3. Land Use:

- Overview of current land use practices, their potential detrimental effects on air and water quality, what methodologies (i.e. smart growth, low impact development, form-based codes), can be utilized for improvement.
- Transportation: Presentation(s) should give an overview of the future of transportation including transit, rail, and other modes of non- traditional transportation (i.e. single occupancy vehicles, etc.).
- Brownfields: Presentation(s) should describe the economic and environmental benefits of utilizing Brownfields. Case studies are acceptable and encouraged.
- Green Building Design: Presentation(s) should address the sustainable design and energy efficiency associated with green building design. Case studies are acceptable and encouraged.
- Alternative Energy Sources: Presentation(s) should address other sources of energy for use in comparison to the historical use of coal and nuclear.
- Biofuels: Presentation(s) should address alternative fuel sources in comparison to gasoline, research being conducted, etc.

**CODE OF CONDUCT:** All presentations should be scientifically-based, educational, and presented in a respectful manner. Presenters are expected to exhibit the highest standards of integrity and professionalism. Opinion presentations will not be considered.