



## President's Letter to Members

### NAEP Meeting the Challenges

As I write this, NAEP has just held a successful Board of Directors meeting in St. Petersburg, the site of our 2014 conference. This is an outstanding venue and location for the conference, a block from the Tampa Bay waterfront and

within walking distance to numerous restaurants and attractions. Among the attractions are at least six museums, including the Dali Museum where we will have a conference event. It is R-rated (the art museum, not our event!). A little known downtown bayfront site that I liked was a palm arboretum which has 500 species of palms and cycads from around the world. A downtown trolley links many of the sites.

NAEP has begun a quarterly leadership call where the committee chairs share information on their activities and issues. The second such call in October highlighted the breadth of activities that our volunteers are engaged in. Especially active are the Education (webinars, a new partnership with the Vermont Law School, and NEPA basics training), Awards, Conference, Chapters (affiliated chapter development and new chapter benefits), Communications (Internet presence) and Environmental Policy (NEPA practice and tracking of new developments) Committees. The Publications Committee is re-established and up and running.

This activity is especially heartening because these are difficult times for many professional groups. In the past it was enough to offer a few meetings and a journal. Today that is not enough to get professionals engaged. A recent study by the American Institute of Biological Sciences (Potter, Musante, and Hochberg 2013), although focused on academic scientific societies, provides many insights. They find that technological advancements have completely overhauled how the scientific community communicates, discovers, creates, and connects. In addition, the field has become increasingly interdisciplinary. The relationship between individuals and their professional societies is changing. Scientific societies are a peer network that will vet and strengthen research and advance careers. In return, individuals contribute their expertise to advance the organization. Societies must provide key social services not offered by academic institutions or government agencies.

Membership, funding, and journal sales and publication are the three greatest challenge areas. I think the Board of NAEP would readily agree that these are our challenges. The AIBS study goes on to state that journal access is no longer a compelling motivation for joining an organization. The most compelling reasons are to attend a meeting face to face and to be a part of the professional community. In early career, most people join only one to three societies.

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The NAEP National *E-News* is a publication of NAEP. NAEP can be contacted through the information below:

Tim Bower, CAE • NAEP Headquarters  
PO Box 460 • Collingswood, NJ 08108 • P: 856-283-7816 • E: [naep@naep.org](mailto:naep@naep.org) • [www.naep.org](http://www.naep.org)



To all NAEP Members, Chapter Affiliate Members and other Environmental Professionals:

*Don't miss this amazing opportunity to learn about Best Practices and Guiding Ideas in Environmental and Transportation Planning. We have four excellent speakers lined up for this NAEP webinar on November 13th. You will learn from two Headquarters leaders in FHWA's Every Day Counts initiatives as well as two of the most respected environmental professionals and managers in the country as they talk about real project examples for Implementing Quality Environmental Documents and Innovative/Accelerated Project Delivery. With the continued rapid acceleration of our daily personal and professional lives, where our clients expect the unexpected and added value service is the norm, our best efforts are continually challenged. These four speakers will enlighten us to more ably contribute to our professional lives, our clients' success and the advancement of the profession as a whole. See webinar details below – Sign up today!* — Ron Deverman, NAEP Past President



## NAEP November 2013 WEBINAR ANNOUNCEMENT

# Guiding Ideas in Transportation Planning

Go to [WWW.NAEP.ORG](http://WWW.NAEP.ORG) to register

The National Association of Environmental Professionals (NAEP) invites you to attend an educational webinar on “Guiding Ideas in Transportation Planning.” This webinar addresses the best practices, leading edge initiatives and success stories in transportation planning under MAP-21.

We are in a dynamic period in this nation's transportation evolution where aging infrastructure needs urgently improved or replaced to provide efficient, reliable, multi-modal alternatives for our transportation needs and choices. The environmental compliance process has often been targeted as the key cause of delay and schedule extensions in the delivery of large infrastructure projects.

Please join us as FHWA, state and regional DOT representatives speak on the exciting ideas and initiatives being accomplished under Every Day Counts, including lessons learned and real examples from Implementing Quality of Environmental Documents (IQED), Use of Programmatic Agreements (UPA), and most importantly Expedited Project Delivery (EPD). Our panel of experienced speakers is as follows:

- **Tricia Harr, AICP** – Environmental Protection Specialist in the Office of Project Development and Environmental Review at FHWA Headquarters, Washington, D.C., presenting Every Day Counts (EDC) success stories and IQED overview.
- **Tim Hill** – Executive Administrator, Office of Environmental Services, Ohio DOT, speaking on IQED and presenting a recent reader-friendly EIS that received AASHTO and TRB recognition.
- **Michael Lamprecht** – Environmental Protection Specialist at FHWA Headquarters, Washington, D.C.
- **Doug Failing** – Executive Director of Highways, Los Angeles County Metro, speaking on the innovative delivery of four multi-billion dollar Measure R transportation projects currently in the Phase I/NEPA process.
- **Moderator: Ron Deverman** – Associate Vice-President, Principal Environmental Planning Manager for HNTB – 30-year NEPA practitioner.

**Date/Time:** Wednesday, November 13, 2013 at 1:00 pm ET (12 pm CT, 11 am MT, 10 am PT)

**Duration:** Event will last 90 minutes, includes Q&A

**Location:** Wherever it is convenient for you

**Questions:** Contact Tim Bower at 856-283-7816 or e-mail at [naep@naep.org](mailto:naep@naep.org)

### Registration Fees:

- NAEP members — \$79.00
- NAEP Affiliate Chapter members that are not NAEP members — \$107.00
- Non-members (NAEP or Affiliated Chapters) - \$119.00 (Save \$40—please consider joining to receive the member rate for this and future events)
- Full time Students can participate at a reduced fee of \$39.00



*Editor's note: This article came from a presentation at the 2013 conference in Los Angeles. I am always looking for presenters to want to publish their information in the ENews, so keep us in mind as you prepare for the 2014 conference.*



*Stephanie Oslick, AICP, is an Environmental Planning Manager with the Orange office of Parsons Brinckerhoff. She has more than 18 years of experience analyzing a variety of environmental issues associated with infrastructure projects, including California's high-speed train project.*



*Bryan Porter, AICP, is an Environmental Planning Manager with the Sacramento office of Parsons Brinckerhoff. He has more than 30 years of experience working on a variety of planning projects, including the preparation of environmental documents for California's high-speed train project.*

## Federal Funding, Phasing and Initial Construction of the California High-Speed Rail Project

**Bryan K. Porter, AICP:**  
*Environmental Planning Manager, [Porter@pbworld.com](mailto:Porter@pbworld.com)*

**Stephanie S. Oslick, AICP:**  
*Senior Supervising Environmental Manager, [Oslick@pbworld.com](mailto:Oslick@pbworld.com)*

In 2009, the Congress passed and the President signed into law the American Recovery and Reinvestment Act (ARRA). It was a response to the nation's economic downturn and the country's need for public infrastructure. ARRA made \$8 billion available to states for planning, engineering and construction of high-speed rail (HSR) systems. Through a competitive process, California was successful in securing nearly \$2.4 billion in ARRA funds. California voters had already kicked in matching funds by approving Proposition 1A, the "Safe, Reliable High-Speed Passenger Train Bond Act for the 21st Century" in 2008. With the help of other federal grants and ARRA funds, the state now has \$6 billion to begin construction this fall on the nation's first HSR system. While additional funding will be needed, this initial investment of federal and state funds is essential for implementing HSR service between San Francisco and Los Angeles by 2029.

### Background

In 2005, the California High-Speed Rail Authority (Authority) and Federal Railroad Administration (FRA) completed a Tier 1, program-level environmental document, which approved the high-speed rail (HSR) system for intercity travel in California. It also selected corridors for project-level environmental analysis. This was followed in 2008 by adoption of the Bay Area

to Central Valley High-Speed Train Final Program Environmental Impact Report/Environmental Impact Statement (EIR/EIS), which identified a preferred alignment between the San Francisco Bay Area and the Central Valley via Pacheco Pass. The Bay Area to Central Valley document was subsequently revised in 2010 and again in 2012.

Beginning in 2007, the Authority and FRA initiated preparation of engineering and Tier 2, project-level environmental documents for the statewide system, dividing the system into nine geographic sections. These nine project sections, shown in Figure 1, include:

- San Francisco to San Jose
- San Jose to Merced
- Merced to Sacramento
- Merced to Fresno
- Fresno to Bakersfield
- Bakersfield to Palmdale
- Palmdale to Los Angeles
- Los Angeles to Anaheim
- Los Angeles to San Diego

In 2012, the Authority and the FRA completed the Merced to Fresno High-Speed Rail Project EIR/EIS. By the middle of 2014, the Fresno to Bakersfield High-Speed Rail Project EIR/EIS is to also be completed. Environmental work on the remaining sections of the rail line between San Francisco and Los Angeles is to be completed by 2017.





California High-Speed Rail *Continued from page 3*



Figure 1: California's High-Speed Rail Project Sections

By 2029, the system will run from San Francisco to the Los Angeles basin in under three hours at speeds capable of over 200 miles per hour. The system will eventually extend to Sacramento and San Diego, totaling 800 miles with up to 24 stations. In addition, the Authority is working with its regional partners to implement a statewide rail modernization plan that will invest billions of dollars in local and regional rail lines to meet the state's 21st century transportation needs.

A Phased Implementation Approach

Given the project's length, technical complexity, and funding requirements, the Authority has adopted a phased implementation approach. The table at right summarizes the three phases.

Section	Total HSR Length	Endpoints	Service Description	Service Start	Cumulative Cost (Escalated, billions)
Initial Operating Section (IOS)	300 miles	Merced to San Fernando Valley	<ul style="list-style-type: none"> <li>One-seat ride</li> <li>Closes north-south intercity rail gap between Bakersfield and Palmdale and then into the LA Basin</li> <li>Begins with construction of 130 miles of HSR track and structures in the Central Valley</li> <li>Private sector operator</li> <li>Ridership and revenues sufficient to attract private capital for expansion</li> </ul>	2022	\$31
Bay to Basin	410 miles	San Jose and Merced to San Fernando Valley	<ul style="list-style-type: none"> <li>One-seat ride</li> <li>Shared use of electrified/upgraded Caltrain corridor between San Jose and the San Francisco Transbay Transit Center</li> <li>First HSR service to connect the San Francisco Bay Area with the Los Angeles Basin</li> </ul>	2026	\$51
Phase 1 Blended	520 miles	San Francisco to Los Angeles/ Anaheim	<ul style="list-style-type: none"> <li>One-seat ride</li> <li>Dedicated HSR infrastructure between San Jose and LA Union Station</li> <li>Shared use of the Caltrain corridor (see above)</li> <li>Upgraded Metrolink corridor from LA to Anaheim</li> </ul>	2029	\$68



## California High-Speed Rail *Continued from page 4*

### Construction of the First Construction Section

In 2009, when the FRA issued its “call for projects” for ARRA funding, the Authority submitted funding applications for four sections:

- San Francisco to San Jose,
- Merced to Fresno,
- Fresno to Bakersfield, and
- Los Angeles to Anaheim

These sections were initially prequalified for funding. To ensure that all criteria were met, as well as conditions of Proposition 1A, the Authority and the FRA, decided to use the ARRA funds to start construction in the Central Valley. In addition, to meet the federal funding criteria, beginning construction in the Central Valley is an important first step for the California HSR system. The “Backbone” of the statewide high-speed rail system will be created, which can then be extended north and south, creating the first true high-speed rail system in the nation. The Central Valley “backbone” of the statewide high-speed rail system will be put into use immediately upon completion for improved service for the San Joaquin intercity line that operates between Oakland.

Starting the first construction segment of the Initial Operating Section (IOS) between the City of Madera and Bakersfield in the Central Valley is a cost-effective way to use initial funding. The per-mile cost of building this section is significantly lower than the per-mile cost of construction in developed and densely populated metropolitan areas. The Authority will avoid further increases in land costs or re-routing to avoid impacts on newly established residential areas if the project moves ahead in the Central Valley before more development occurs.

The first construction segment will be built using a design-build approach under which the private sector will assume responsibility for completion of design and construction. This will allow the state to transfer design, construction, schedule, and cost risks to the private sector and obtain the benefits of the current highly competitive bidding market. Furthermore, construction in the Central Valley is relatively straightforward given that much of the alignment is at-grade through sparsely populated areas, from a construction standpoint. This allows local contractors to become familiar with the new requirements related to construction of high-speed infrastructure, which should translate into efficiencies in later stages.

### Phased Implementation

As described in the Authority’s 2012 Business Plan, the Authority is advancing a phased approach to system development. The first two implementation steps, described below, will result in construction of the first construction segment. Later on, construction of the IOS will be achieved through expansion of the Project into an electrified operating HSR line from Merced to Palmdale and the San Fernando Valley.

• **Step 1 – Early Investments, Statewide Benefits.** The first construction of dedicated high-speed infrastructure for the IOS begins in the Central Valley. Like all the other steps, this initial section is being developed to deliver early benefits by leveraging other systems—enabling them to operate on the new high-speed tracks. This can be done without impacts on design or integrity of the new infrastructure. Improved passenger rail service would begin upon completion of the first construction segment by connecting the existing San Joaquin Amtrak service, Altamont Commuter Express (ACE), Sacramento Regional Transit, the Capitol Corridor, and potentially Caltrain which operates between Sacramento and San Jose. Through a new, strategic approach, there is also an opportunity for new or improved one-seat riders between Bakersfield and Sacramento, Oakland, San Jose and San Francisco. This expanded Northern California Unified Service could begin operation as early as 2018, with the potential to provide transportation and economic benefits well before a fully operational high-speed rail service is initiated.

As part of this first step, complementary investments and improvements will be made to both accelerate benefits and distribute them more widely across the state. These investments will be made using \$950 million in Proposition 1A connectivity funding, available Proposition 1A HSR funds, future federal funds, and other sources. These investments will include the following:

- Investment in the bookends. In Northern California, the long-awaited electrification of the Caltrain corridor will begin under a collaborative program now underway between Bay Area agencies and the Authority. In addition, consistent with a Southern California MOU, investments will be made in key corridors in the southern part of the state, such as upgrading the Metrolink corridor from Los Angeles to Palmdale.



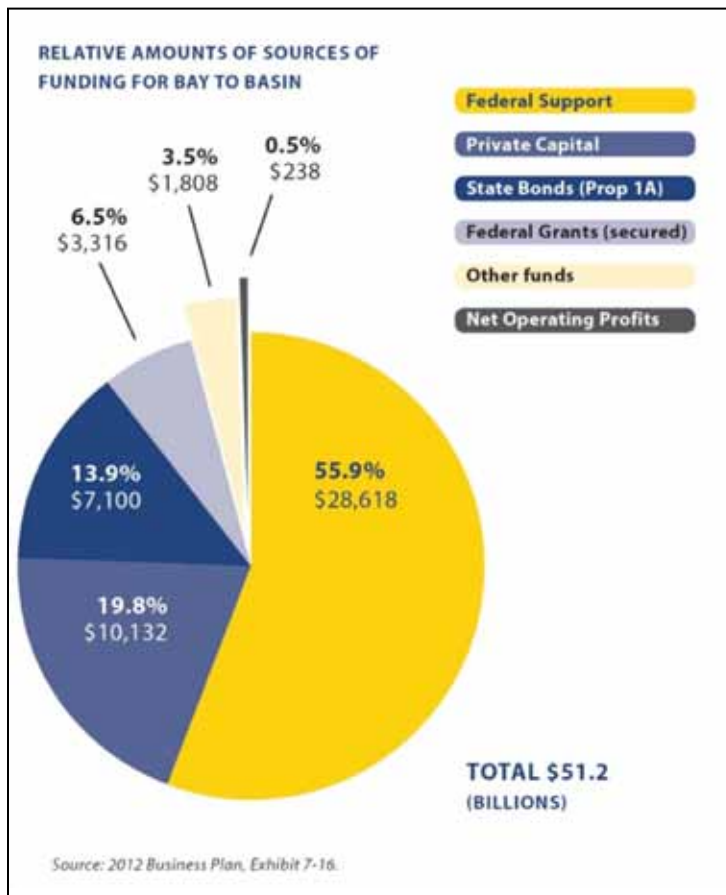
## California High-Speed Rail *Continued from page 5*

- The Northern California Unified Service will be initiated. Such Unified Service would use the first construction segment in the interim period until the initiation of full HSR service. This concept would include speeds on the first construction segment of 125 mph (compared to a maximum of 79 mph and an average of 50 mph on the existing line) and speeds on improved sections of existing rail of up to 90 mph, to significantly speed rail travel from Bakersfield to Sacramento, Oakland, and San Jose. Once HSR becomes operational, the improved network becomes a critical feeder service to the HSR system.
- Closing the Gap. As the next step in the IOS, work to close the rail gap between Bakersfield and Palmdale through the rugged, Tehachapi Mountains that separate Northern and Southern California will begin. Environmental clearance is possible in 2015 and plans are being developed to move quickly to implement the improvements to close this critical gap and create the first state-wide rail link between the Bay Area and the Los Angeles Basin.

• **Step 2 – Initial High-Speed Rail Operations.** Introduction of the state’s (and the nation’s) first fully operational HSR service will begin. This service can be operated by a private entity without subsidy, and have the potential to attract private investment to expand the system from Bay to Basin, and can be planned, designed and constructed within a decade. The service will be blended with regional/local systems. The IOS is achieved through expansion of the first construction segment into an electrified operating HSR line from Merced to Palmdale and the San Fernando Valley, accessing the populous Los Angeles Basin. Following on the work discussed above, the next priority in implementing the IOS will be closing the rail gap between Northern and Southern California by crossing the Tehachapi Mountains with new, dedicated HSR infrastructure. Prior to completion of the IOS to the San Fernando Valley, this link will tie the north to the south at Palmdale, where Metrolink commuter rail service can then provide service and connections throughout Southern California.

### Initial Construction Funding Secured

Developing the first segment of the IOS from Madera to Bakersfield will cost \$6 billion, consisting of \$3.2 billion in federal funding (provided via ARRA) and \$2.6 billion in Proposition 1A bond proceeds. The remaining portion of the IOS—



from Madera north to Merced and from Bakersfield south to the San Fernando Valley—will be funded using state bonds, federal support, and local funds. Cap and Trade funds are also available as needed, upon appropriation by the state legislature, as a back-stop against federal and local support to complete the IOS.

Given its 2012 approval of its Merced to Fresno EIR/EIS and because it has secured the needed funding, the Authority will begin project construction later this year, beginning with construction from Madera to Fresno. Construction will then be extended when the Authority certifies an EIR and the FRA issues its Record of Decision (ROD) for the 130-mile Fresno to Bakersfield section of the high-speed rail project in early 2014.

The Bay to Basin system is expected to be funded using a mix of federal, local and other funds as well as private-sector capital. Likewise, the completed Phase 1 Blended system is expected to be funded in a similar manner.

Once the IOS is under construction and work has begun on blended improvements in Northern and Southern California,

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## California High-Speed Rail *Continued from page 6*

the Authority will begin to build the remainder of the IOS with initial attention on closing the passenger-rail gap between Bakersfield and the Los Angeles basin. Development of the IOS will be funded through government sources, while private-sector capital will fund future construction segments once the system is generating positive cash flow.

### Initial Passenger Operations Generate Additional Investment

Once the IOS has been completed and the Authority is providing passenger service, the opportunity for private investment will become a reality. The Authority plans to access private capital based on the net cash flows from operation of the IOS to help fund construction of the remainder of the Bay to Basin section. This model is consistent with other high-speed rail projects internationally and was confirmed to be accurate by potential investors based on information collected by the Authority.

Revenues required to reach breakeven costs on the IOS are estimated at \$218 million in 2022, which is 55 percent below the first-year high revenue estimate and 20 percent below the low estimate. The Authority plans to use these revenues to demonstrate profitability and, in turn, sell future revenues to private

sector bidders at a discount. The proceeds from these transactions will fund construction of future segments.

### Leveraging State Bond Funds

A total of \$8.1 billion in state Proposition 1A bond funds are available for HSR construction after factoring in environmental, planning and administrative costs. Of that amount, \$2.6 billion will be used for the start of construction on the IOS and \$1.1 billion is set aside for Blended System improvements, leaving a total of \$4.4 billion to help fund the remainder of the IOS. These funds will be used to match federal funding to close the rail gap from Bakersfield to Palmdale and complete the IOS.

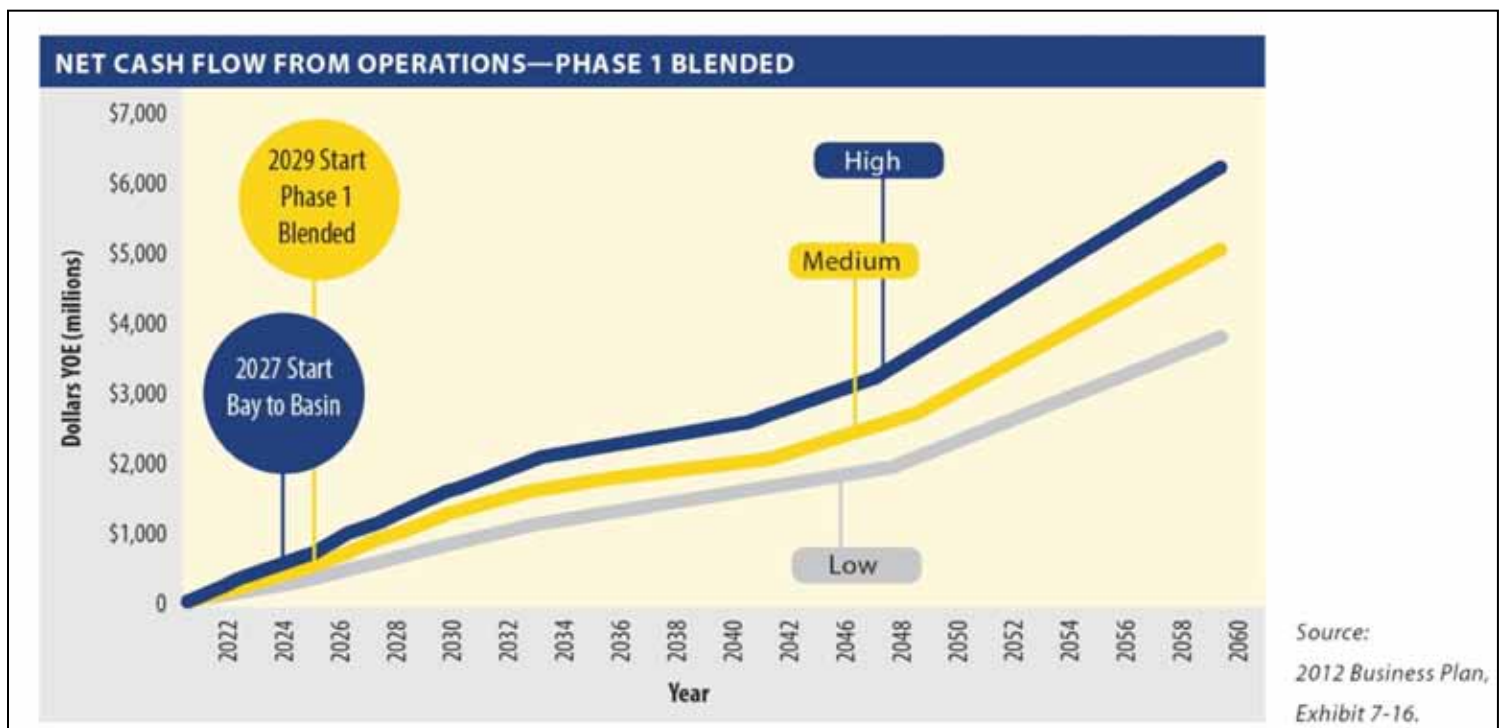
### Future Projects and Identified Funding

Under Proposition 1A and the phased implementation strategy outlined in the 2012 Business Plan, the state would not start building a new section until funding has been identified. Every segment will have independent utility and will add value to the state's transportation system.

### Positive Cash Flow Generates Private Investment

As the system develops over time it will generate positive net operating cash flow and the 2012 Business Plan assumes

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## California High-Speed Rail *Continued from page 7*

private investment occurs soon after the IOS is operational. That service is projected to have a material value to a potential private-sector investor as a stand-alone service. If the IOS is demonstrating strong ridership and revenues, as forecast, along with overall strong operational performance, private investment could also help in developing the Bay to Basin system. Private-sector investment could exceed \$10 billion in year-of-expenditure terms.

### Ridership

Under all three ridership scenarios described in the 2012 Business Plan—high, medium, and low—the system will produce net operating profits with no operating subsidy. Projections are based on average HSR fares that are 83 percent of assumed San Francisco to Los Angeles one-way airfare of \$97. High rid-

ership scenarios assume a fuel price of \$6.11 in 2030, with low scenarios assuming a fuel price of \$2.60 in 2030.

The number of riders needed to break even when the IOS opens in 2022 is 2.3 million or 45 percent of the high projection. The number of riders needed to break even when Phase 1 Blended is opened in 2029 is 6.1 million or 23 percent of the high projection.

### Looking Ahead

The initial investment of ARRA and other federal and state funds represents an enormous first step in building the nation's first HSR system. While additional funding will be needed to extend the first construction segment north and south and to fully implement phased construction of the system, the start of project construction this fall will establish the momentum, energy and commitment necessary to build and operate high-speed rail service between San Francisco and Los Angeles by 2029.

## Saying What We Mean

*An indefinite series of essays about words and phrases that do not necessarily mean what we say*

*Eighth in a series by Owen L. Schmidt*

### Categorical Exclusion

The word exclusion looks a lot like the word exemption. If we are excluded we may think we are exempt. In this case, if our proposal is categorically excluded we may think we are exempted or excluded from NEPA.

We don't necessarily mean what we say, and we don't necessarily say what we mean.

What we mean to say is that the process of categorical exclusion is one of three processes to comply with the procedural provisions of the National Environmental Policy Act. We can prepare an EIS. We can prepare an EA/FONSI. Or we can find our project to be categorically excluded. If we are categorically excluded, we are not excluded or exempt from NEPA. We are, in fact, complying with NEPA.

The better choice of words would have been categorical exemption. An exemption is a man-made rule. For example,

we may have income or property that is tax exempt. We don't have to pay taxes. A vintage automobile may be exempt from licensing. No license plates are necessary to drive in a parade. A categorical exemption would mean an entire category of actions is exempt from the requirement for an EA or EIS.

If we can find no significant impact for an entire category of actions, we can declare the actions within that category to be categorically exempt – well, categorically excluded – from further process. Thereafter, a proposal for an action within that category can be undertaken without an EA or EIS (more about the “extraordinary circumstances” in another essay). The FONSI has already been made, in effect, for all the actions within the category.

A still-better choice of words for this process would have been Categorical FONSI – a FONSI on an entire category of actions. Perhaps a C-FONSI. That is exactly what was intended. “‘Categorical exclusion’ means a category of actions which do not individually or cumulatively have a significant effect on the human environment and which have been found to have no such effect in procedures adopted by a Federal agency in implementation of these regulations ... and for which, therefore, neither an environmental assessment nor an environmental impact statement is required.” 40 CFR 1508.4. There it is: a finding.

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## Saying What We Mean

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A finding that the entire category of actions, if undertaken, individually or cumulatively, will have no significant impact on the human environment. It is a FONSI on an entire category of actions.

This is close to the definition of a FONSI: “a document by a Federal agency briefly presenting the reasons why [a proposed] action ... will not have a significant effect on the human environment and for which an environmental impact statement therefore will not be prepared.” 40 CFR 1508.13. Both the categorical exclusion and the FONSI are findings that the proposed actions in question will not have significant effects. The actions are thus exempt from the requirement for an EA or EIS.

It is also possible to find no significant impacts for an individual issue within an EIS. “As part of the scoping process the lead agency shall ... Identify and eliminate from detailed study the issues which are not significant ... narrowing the discussion of these issues in the statement to a brief presentation of why they will not have a significant effect on the human environment ...” 40 CFR 1501.7(a)(3). The regulations do not use the word finding, but nevertheless what is required is a finding that the issue is not significant. In effect, this finding is a FONSI on an issue. The issue is thus exempted from the scope of an EIS.

So, an issue can be found to be not significant and then is exempted from the scope of an EIS. A project can be found to have no significant effect and then is exempted from having to prepare an EIS. An entire category of actions can be found to have no significant effect and is thus exempted from having to prepare an EA or EIS. These are all FONSIs but at three different scales: issue, project, and category of projects. In each case, this is a NEPA procedure not a NEPA exemption.

We don't call them all FONSIs, though that is what they all are. We don't even call them all findings, though that is surely what they are. If we said what we meant, we would call them a FONSI for a category of actions, a FONSI for an individual proposed action, and a FONSI for an issue.

And if we meant what we said, we would say there is a category of actions that are exempted from an EA or EIS by virtue of a finding that none of the projects in the category, individually or cumulatively, will cause a significant impact on the human environment. We would say an individual proposed action is exempted from an EIS by virtue of a finding it will not have significant impact. We would say in issue is exempt from the scope of an EIS by virtue of a finding it will not have significant impact.

**CONTACT THE AUTHOR: Owen L. Schmidt, P.O. Box 18147, Portland, OR 97218-8147 [oschmidt@att.net](mailto:oschmidt@att.net)**

## Jim Roberts 2014 Scholarship Competition Kickoff

NAEP announces the kickoff of the competition for the Second Annual Scholarship Award at the NAEP 2014 Annual Conference in St. Petersburg, FL. The link to the Scholarship Application is below. Submissions are due Friday, January 24, 2014.

For Additional information on the Jim Roberts Scholarship please click on the Link below: <http://www.naep.org/jim-roberts-scholarship-fund>



*Editor's Note: NAEP has had a long abiding interest in Sustainability. We will be featuring a Sustainability track at the 2014 Conference in St. Petersburg, Florida in April. This short article came out a short while back and references a report that was published in December 2012. If you are like me, this is one of those documents to print out and keep for reference on future projects. While this is not usually the type of article I look for, it certainly helps to increase the base of information we are providing in the E-News. If you run across something similar or have one you want published, be sure to contact me.*

## P2 Programs have Significant Environmental and Economic Benefits, Report finds

The National Pollution Prevention Roundtable (NPPR) recently released its fourth Pollution Prevention (P2) Results Report, *A Cornerstone of Environmental Sustainability: Pollution Prevention Results from 2007-2009*. Based on data submitted to the P2 Results Data System by over 90 organizations across the United States, the report found that P2 programs generate significant savings for businesses and institutions by helping them conserve resources and eliminate wastes.

Almost \$6.6 billion in economic benefits were reported by state and local environmental and health agencies, academic institutions, and tribal organizations that submitted data from 2007-2009. These organizations minimized or eliminated more than seven billion pounds of pollution and prevented over 33 billion pounds of greenhouse gases from being released into the Earth's atmosphere. They also conserved approximately 16 billion gallons of water and reduce energy usage by 2.5 billion kilowatts.

According to the report, 7 billion pounds of waste reduced is equivalent to the waste produced by 350 thousand households, which is about the size of the city of Columbus, Ohio. Additionally, \$7 billion in cost savings represents an average of a 5-fold return on investment for the implementing organizations. 17 billion gallons of water conserved is equivalent to the annual demand by the city of Burbank, California.

In addition to these "Outcome" measures, or the environmental and economic impact of P2 strategies, the report also covers "Activity" and "Behavioral" outcomes. Activity measures consist of organizations' efforts to share their P2 strategy with the public, including the number of site visits and workshops or the number of documents distributed. Behavioral changes cover improvements in awareness or actions, such as the adoption of a P2 policy.

On the "Activity" side, over 66,000 people attended P2-themed training events and more than 1,200 environmental

management systems were developed. For "Behavioral" outcomes, more than 7,000 P2-related suggestions were implemented by more than 6,000 clients.

These three categories served as the basis for the Environmental Management Data Dictionary, which guided System contributors in accurately compiling and aggregating their data. The Data Dictionary was developed by the P2 Results Task Force, an NPPR work group comprised of representatives from NPPR, P2 Resource Exchange Center (P2Rx), EPA Headquarters and Regions, and State P2 programs. P2Rx Regional Centers and NPPR collected and analyzed the data for the P2 Results Report. Regular updates to the Data Dictionary ensure that the System reflects the priorities of state, local, and tribal P2 programs. Also included in the System is a set of cost calculators that estimate potential savings of various P2 strategies.

The 2007-2009 P2 Results Data System Report was compiled in a number of phases. NPPR and P2Rx first issued several calls for data through listservs and social networks within the P2 community. Through webinars, P2Rx Centers assisted P2 programs in sharing their data through the system and addressed any questions or issues that may have arisen. Once the deadline to submit data had passed, P2Rx compiled all of the data into a spreadsheet and NPPR staff generated the graphs and tables presented in the report. The P2 Results Task Force reviewed the spreadsheet and at least three draft versions of the report over a period of six months to resolve data issues and questions. The report was edited and changed to ensure the accuracy of the results and conclusions.

The P2 Results Report demonstrates the tangible benefits of pollution prevention programs to a variety of stakeholders including potential P2 Results Data System participants. By



## P2 Programs

*Continued from page 10*

providing a data-based resource to P2 programs across the U.S., the System attempts to increase collaboration among policymakers, government agencies, and managers and help make their P2 strategies more effective. The System allows these organizations to showcase the way P2 programs are delivering value to their clients, the public, and taxpayers. It also serves as a learning mechanism to help them evaluate their progress toward P2 goals and effectively apply future investments into environmental improvement.

NPPR has been publishing reports on the impact of P2 programs since 2003. It expects to release its fifth report, which will cover data from 2010-2012, in 2014. The 2004-2006 and the 2007-2009 reports were the first to use data from the National P2 Results Data System. Prior to the System, NPPR's reports relied on hard copy surveys of state P2 programs.

Ongoing updates and improvements to the P2 Results Data System will be reflected in the upcoming 2010-2012 report. Funding from the US EPA National Environmental Information Exchange Network in 2010 enabled the Task Force to consolidate the System into a single platform that allows users to search for data on a state-by-state basis. This change, along with efforts to develop a System QA policy for participants, is assisting the Task Force in conducting quality checks and improving data transparency and ease of use. The Task Force has also been working on integrating more sustainability measures into the System.

To view the Report, please visit:

<http://www.p2.org/wp-content/uploads/p2-results-2007-9-final.pdf>

## Additional Info

The P2 Results Data System collects information on activity, outcome, and behavioral P2 measures from organizations across the country. Its scope is based on a core set of P2 metrics that were agreed upon by the participants in the System and can be seen in the Data Dictionary. Organizations do not have to address all of the metrics in the Data Dictionary when submitting data to the System. The P2 Results Data System is intended to report on the overall effectiveness of P2 measures in the United States, rather than the effectiveness of each program.

More than 90 organizations, including state and local environmental and health agencies, academic institutions, and tribal organizations submit data to the System. They represent and work with thousands of companies, agencies, and communities throughout the United States. These 90 organizations signed a P2 Results Memorandum of Agreement (MOA) in which they agreed to collect data using core pollution prevention metrics and a data management system, share data and experiences online with a regional P2Rx Center, and to periodically edit and update the core pollution prevention metrics.

The P2 Results Data System Report presents information collected through the P2 Results Data System on national activity, behavioral, and outcome pollution prevention measures submitted by public and private entities across the United States.

The report describes the participants, methodology for data collection and analysis, results, and future efforts to improve the collection and sharing of P2 results.

## NAEP Needs "You" to Serve as an Elected At-large Board Member

NAEP is a voluntary association headed by a Board of Directors. The Board is composed of 12 at-large elected members from the environmental field, four ex-officio members, and one chapter representative for each 150 NAEP members in the Chapter. All serve without compensation. Each year prior to the annual conference, 4 at-large Board Members are elected to serve a three-year term of office. For more information the requirements and expectations of an elected at-large Board Member please review the Self Nomination Form that is attached to the link below. The deadline for submission is November 15, 2013.

For full details and the submission for go to [www.naep.org](http://www.naep.org)





## 2014 Annual Conference

### Changing Tides & Shifting Sands

April 7 – 10, 2014  
St. Petersburg, Florida

The response to the Call for Papers far exceeded our expectations, and in order to accommodate as many great topics as possible, we have expanded the conference from 4 to 5 simultaneous tracks. The committee is busy reviewing and assigning papers to sessions and we will soon have a schedule at a glance available for review. The latest information will always be on [our website](#).

In the meantime, registration is open, both [online](#) or as a downloadable form. Early registration rates are active, so make your plans, submit your requests as needed, and plan on joining us for a great conference at a great location.

We have 3 training classes plus what is shaping up to be a full day of career development sessions that will be offered on Monday, prior to the opening of the conference Monday evening. The classes are:

Best Practice Principals for EA's

Coastal Landscape Visualization

Threatened and Endangered Species

There are still booth, tabletop, and various sponsorships opportunities available to choose from to expose your company and product to over 400 Environmental Professional from around the country and overseas! Our rate for exhibits has been drastically reduced, and are going fast, so reserve your spot today (check the layout map to see which locations are available). Use our [online form](#) to sign up for an exhibit space or a sponsorship. For information go to <http://www.naep.org/2014-Conference>.

NAEP has a block of rooms reserved at a group rate, including a limited number for government employees. The link to make your hotel reservation can be found on the [Conference website](#).

Join us for a fun evening at the famous [Salvador Dali Museum](#) in St. Petersburg. This will be a private event open to NAEP conference attendees only.

Please contact [Donna Carter](#) if you have general questions about the conference.



## Education Committee Update

Marie Campbell, Chair

*“If you learned something new, it was a good day.”*

The National Association of Environmental Professionals (NAEP) Education Committee (Ms. Erica Boulanger, Mr. Ron Lamb, Mr. Ron Deverman, Ms. Wendy Haydon, Mr. Roger Turner, Mr. John Esson, Mr. Jim Yawn, and Ms. Marie Campbell, with support from President Harold Draper, Past President Paul Looney, and Executive Director Tim Bower) is excited to introduce our newest volunteer, Texas Chapter Member Kristi Soltysiak, of Edge Engineering and Science. The Education Committee has been focusing their efforts in four areas: developing and presenting webinars, developing an affiliation with Vermont Law School (VLS) for a webinar series, making recorded webinars available to members, and developing a National Environmental Policy Act (NEPA) Basics Training Course.

### October 2, 2013: Health Impact Assessment Webinar

The most recent NAEP webinar, “Health Impact Assessment in the Environmental Process,” was very well received, garnering exceptionally high speaker ratings. With particular attention to transportation projects, this webinar addressed the growing national movement for better integration of the results of Health Impact Assessments (HIAs) into the environmental documents prepared pursuant to both NEPA and documents prepared to meet comparable requirements in state-adopted environmental statutes and regulations. The webinar was presented by three excellent speakers, with an additional guest helping to facilitate the question and answer period:

- Scott Dwyer, PhD, DABT: Practice Leader, Risk Analysis & Toxicology, Kleinfelder
- Andrew Burroni, PhD: Principal Consultant, Environmental Planning & Development; Group Leader, Health Impact Assessment, RPS Group, United Kingdom
- Cathy Baldwin, PhD: Independent Social and Health Impact Assessment Consultant, United Kingdom; Post-Doctoral Associate in Anthropology, University of Oxford; and Research Fellow, World Resources Institute, United States

- Karyn M. Warsow, MS, MPH, DrPH(c): Johns Hopkins Bloomberg School of Public Health, Department of Health Policy; Founder and Principal, Transportation Public Health Link (TPH Link)

The NAEP Education Committee wishes to express our appreciation to the TPH Link for its assistance in developing this webinar. For more information about the TPH Link, visit [www.transpotohealthlink.com](http://www.transpotohealthlink.com)

### November 13, 2013: Guiding Ideas in Transportation Planning

Please plan on participating in this upcoming webinar, which will address best practices, leading edge initiatives, and success stories in transportation planning. The webinar is being supported by a team of speakers who are working on the cutting edge of transportation planning in the United States, including representatives from the Federal Highway Administration (FHWA), state and regional departments of transportation, and the Metropolitan Transportation Authority:

- Michael Lamprecht: Environmental Protection Specialist at FHWA Headquarters, Washington, D.C.
- Tricia Harr, AICP: Environmental Protection Specialist in the Office of Project Development and Environmental Review at FHWA Headquarters, Washington, DC
- Tim Hill: Administrator, Office of Environmental Services, Ohio Department of Transportation, speaking on improving the quality of environmental documents (IQED) and a recent reader-friendly Environmental Impact Statement that received recognition from the American Association of State Highway and Transportation Officials (AASHTO) and Transportation Research Board (TRB)
- Doug Failing: Executive Director of Highways, Los Angeles County Metropolitan Transportation Authority, speaking on the innovative delivery of multi-billion dollar Measure R transportation project currently in the Phase I / NEPA process
- Ron Deverman (Moderator): Associate Vice-President, Principal Environmental Planning Manager for HNTB; 30-year NEPA practitioner

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## Education Committee

*Continued from page 13*

### Expansion of Webinar Programming for 2014

Building on the successful model of a three-part webinar series being presented jointly by NAEP and American Public University that is directed toward developing and advancing environmental professionals, NAEP is currently working with VLS to develop a three-part webinar series for 2014 that would be focused on hot topics in environmental law.

### Tentative 2014 Webinar Schedule

- NAEP: Wednesday, January 22, 2014, TBD
- NAEP/VLS: Wednesday, February 5, 2014, Environmental Law Hot Topic No. 1
- NAEP/APU: Wednesday, February 19, 2014, Part I
- NAEP: Wednesday, March 12, 2014, Environmental Remediation
- NAEP: Wednesday, May 14, NEPA Case Review
- NAEP/VLS: Wednesday, June 18, 2014, Environmental Law Hot Topic No. 2
- NAEP/APU: Wednesday, July 16, 2014, Part II

## President's Letter

*Continued from page 1*

In the current work environment, there are six shifts that influence how individuals relate to professional associations:

- Increased competition for time
- Desire to see a return on investment
- More organizations competing for attention
- Generational differences in perceived value of membership
- Increased specialization of interest
- Expectation for technological adeptness

In sum, they find that societies provide intellectual space for debate, communication, and translation of knowledge to inform society's decision making—connecting science with the public. This function provided by scientific societies also seems relevant to NAEP.

My take-home from this is that people need a way to get up to speed on a topic quickly and to network with other profes-

- NAEP: Wednesday, August 13, 2014, TBD
- NAEP: Wednesday, September 17, 2014, TBD
- NAEP/VLS: Wednesday, October 15, 2014, Environmental Law Hot Topic No. 3
- NAEP/APU: Wednesday, November 12, 2014, Part III
- NAEP: Wednesday, December 10, 2014, TBD

### Recorded Webinars for Sale

If you missed a NAEP webinar, don't distress, previously recorded webinars are expected to be available shortly, for a comparable cost to the participation in the live webinar series. For details, please contact NAEP Executive Manager, Tim Bower, at [naep@bowermanagementservices.com](mailto:naep@bowermanagementservices.com).

### NEPA Basics Training

The Education Working Group is seeking volunteers to assist in webinar development and presentation of the NEPA Basics training course in support of chapters throughout the nation, as well as an individual to serve as the chair of the Ethics Subcommittee. If interested, please contact Ms. Eric Boulanger at [erica.boulanger@cardnotec.com](mailto:erica.boulanger@cardnotec.com).

sionals outside of their company or agency. To me, this reinforces the need for our national conference, webinars, and local chapters, but there needs to be more. Tell us what it is. If you do not have a local environmental professionals networking group in your city, consider starting one. What else would you like to see? Green drinks groups? Walking tours? The sky is the limit. It just takes you to organize it!

**Harold Draper**  
NAEP President

### Reference

Potter, Sheri, Susan Musante, and Ali Hochberg. 2013. Dynamism Is the New Stasis: Modern Challenges for the Biological Sciences. *BioScience* 63:705-714.





## American Public University

### NAEP/APU Three-Part Webinar Series 2013

Join us for our second exciting year of interactive webcasts with industry experts sponsored by American Public University and the National Association of Environmental Professionals (NAEP).

APU and NAEP are collaborating on this 3-part series focused on professional development for environmental professionals; helping you build the skills you need for success.

Below is a list of the topics of the 2013 webinars:

- Part 1: Top Skills Sought by Environmental Employers
- Part 2: The Importance of Communication Skills
- Part 3: Top 10 Time Management Tips

To register for these complimentary webinars click the link below:

<http://www.studyatapu.com/NAEP-2013>

The archive video of the past presentations can be found at <http://www.apu.apus.edu/lp2/webcast/NAEP-2013/index.htm>

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#### Part 1: Top Skills Sought by Environmental Employers

Wednesday, April 17, 2013  
12:00 p.m. - 1:15 p.m. ET

Our panel shared a complete report on the 2012-2013 National Environmental Employment Survey conducted by the Environmental Career Center.

- What employers are saying about their latest job projections
- Current job trends
- Top skills environmental employers are seeking

- What all this means for you as an environmental professional

Following the survey results, our panel of hiring managers and employers will discuss the data and relate it to their companies/organizations' expectations in terms of qualifications and skills of new hires. They will also discuss what they predict their hiring needs will be in the near future and share any general resources to help you build the skills you need to stand out in this competitive job market.

#### Speakers

- Carol Pollio, Program Director for Environmental Sciences, American Public University System
- John Esson, Director/Founder, Environmental Career Center
- Elizabeth Copley, Program Manager, Impact Assessment & Permitting Services

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#### Part 2: The Importance of Communication Skills

Tuesday, July 30, 2013  
12:00 p.m. - 1:15 p.m. ET

Following the survey results, our panel of hiring managers and employers discussed why communication, whether written or verbal, is the most important qualification you can develop for a position in the environmental field. Our top experts gave you their advice on best practices as well as how you can continue developing your communication style for more effective proposal writing, reports preparation, client and data presentation, and overall interactions within your professional community.

- Industry experts share their "stories from the field"



## NAEP/APU

*Continued from page 15*

- Advice on improving your writing samples, data presentation, public speaking, and verbal interactions with peers and clients
- Tips on how to demonstrate your skills confidently and successfully
- Gain critical information and resources for professional development

### Speakers

- Ron Deverman, Principal Environmental Planning Manager, HNTB; Former NAEP President
- Jim Montgomery, Editor-in-Chief, Associate Professor, DePaul University
- Robert P. Sliwinski, Senior Environmental Resources Specialist, Christopher B. Burke Engineering, Ltd.
- Kris W. Thoemke, Ph.D., CEP, APU Faculty Member and Upcoming Chairman of ABCEP's Credentials Review Board (CRB) and an Ex-Officio member of the ABCEP and National Association of Environmental Professionals (NAEP) Boards of Directors

## Part 3: Top 10 Time Management Tips

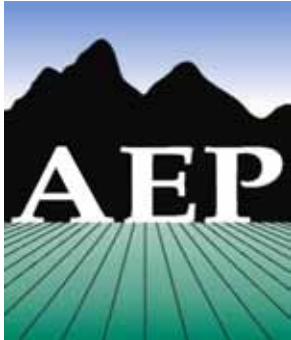
**Wednesday, November 20, 2013 • 12:00 p.m. - 1:15 p.m. ET**

Our panel of industry experts will cover the top ten time management tips for environmental professionals to help you improve your productivity and success. Topics will include:

- How to manage your time
- Learn to prioritize projects
- Making a to-do list
- Proper planning
- Organizing Inbox and calendar
- Learn to say no courteously
- Effectively multitask by combining proper activities
- Other time-saving tips

### Speakers

- Bill Plumptre, CEP, NAEP Board of Director, Chair of Chapters Committee; Environmental Planner, Gannett Fleming
- Kris W. Thoemke, Ph.D., CEP, APU Faculty Member and Upcoming Chairman of ABCEP's Credentials Review Board (CRB) and an Ex-Officio member of the ABCEP and National Association of Environmental Professionals (NAEP) Boards of Directors



## California Association of Environmental Professionals Chapter Report

The California Association of Environmental Professionals ([www.califaep.org](http://www.califaep.org)) has an Executive Board and nine local chapters. Since its formation in 1974, AEP has grown to over 1,750 members: planners, environmental scientists, biologists, lawyers, noise specialists, transportation planners, paralegals, archeologists, geologists, engineers, visual analysts, and other professionals in numerous disciplines. There are nine regional AEP chapters covering the following regions: Channel Islands, Los Angeles County, Inland Empire, San Diego, Superior California, Central, Orange County, Monterey Bay Area, and San Francisco Bay.



Join us for the California AEP Annual Conference in Huntington Beach March 23 – 26, 2014 Conference Topics may include: Sustainable Community Strategies, Wind Energy, Solar Energy, Sea Level, Coastal Level Erosion, Habitat Mitigation HCPs, and so much more!

Go to [www.califaep.org](http://www.califaep.org) for more information and to register.

### AEP Request for 2014 Award Submission to be presented at the 2014 AEP Annual Conference in Huntington Beach.

The submission deadline for the AEP 2014 Awards has been extended to Friday, November 29th. Please go to [califaep.org](http://califaep.org), click on Events on the home page and then Awards Program. Scroll down for the 2014 Awards Program PDF link and download the file. Additionally, AEP is calling all jurors that would like to serve on the committee to review the Award submittals. Please contact Dev Vrat at [devvrat@aol.com](mailto:devvrat@aol.com) if you are interested in serving as a juror.

For additional questions, please contact Dev Vrat at [devvrat@aol.com](mailto:devvrat@aol.com) or Roger Turner at [rwtturner44@gmail.com](mailto:rwtturner44@gmail.com). Thank you and we look forward to hearing from our members honoring the best in the environmental field.



## 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 (<http://faep-tally.com>), 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.

If you have any questions about the FAEP, please contact FAEP President Kristin Bennett at 772-781-3414 or [Kristin.Bennett@tetrattech.com](mailto:Kristin.Bennett@tetrattech.com).

### Providing FAEP Members the opportunity to have a voice in legislative matters: Collaboration between the FAEP and the Florida Local Environmental Resources Agencies (FLERA)

The mission of FLERA is to enhance communication, education and advocacy for Florida local environmental protection efforts. FLERA was formed in the late 1960s as a voluntary association of local environmental programs to share information about mutual resource concerns and solutions. Today, FLERA





## FAEP

Continued from page 17

is a diverse organization of state, county and municipal agencies and consulting firms. FLERA members provide a wide variety of environmental protection and land management services.

Recently, FLERA reached out to the FAEP to offer an opportunity to FAEP members to provide informed professional opinions on environmental matters on pending or proposed legislation. **The response was overwhelming!** So many FAEP members volunteered to join the FLERA “action groups” that FLERA had to start a waiting list for additional FAEP members to participate.

This collaborative effort is a success story for the FAEP and its members. FAEP members have been provided a forum for their voices be heard, to be able to provide valuable input based upon their professional experience and background and to help steer the course of environmental legislation affecting them, their practice and their clients.

## 2013 FAEP Annual Meeting

The 2013 FAEP Conference combined training, education and networking opportunities to appreciate the wide ranging diversity of its members. From the CEP Training Course to the Key Note Speakers and the breakout sessions, every facet of environmental practice was represented. This year's Conference was a great opportunity to interact with professionals from different disciplines and backgrounds. Close to 200 people attended the 2013 FAEP annual conference. As part of the conference, the FAEP and The Academy of Board Certified Environmental Professionals joined together to provide a training course for qualified applicants to become Certified Environmental Professionals (CEP). The CEP program provides eligible environmental professionals who possess special qualifications of education, experience, and accomplishment with the opportunity to be evaluated by a board of peers, and if they qualify, to be recognized for their accomplishments. If you missed the workshop, please contact Jim Yawn ([jim.yawn@disney.com](mailto:jim.yawn@disney.com)) or Don Deis ([don.deis@atkinsglobal.com](mailto:don.deis@atkinsglobal.com)) for more information.

Thank you again to the sponsors, speakers, moderators, and conference committee for making this conference so successful. Without their support, this conference would not have been possible.

## 2014 NAEP Annual Meeting Conference Planning April 7-10, 2014, St. Petersburg, FL

**The 2014 conference planning** continues its work to provide another excellent NAEP annual conference. Track chairs and abstracts have been selected and the schedule is being finalized. There are three workshops, forty-five tracks, key note speakers, award lunches, hot topic lunches and a fabulous dinner planned at the Salvador Dali museum.

Presenters are requested (“strongly requested”) to register and submit your presentation paper or annotated power point presentation no later than February 7, 2014.

**The conference planning committee is seeking sponsorships** – if you are interested in having your company's name in front of the Conference attendees as well as those on the NAEP and FAEP distribution lists that will receive notices about the conference — well over 2,000 on the FAEP distribution list alone — contact Donna Carter ([naepfl@verizon.net](mailto:naepfl@verizon.net)).

## FAEP Chapter Highlights

**The Northwest Chapter** held its **Annual Symposium on October 18. The keynote speaker was Dr. Peter John Shuba presenting on the *Research, Reflections and Ruminations on Forty-Five Years of Environmental Science*.** Dr. Shuba presented selected environmental events (considered disasters) and some of the outcomes and lessons learned from the events. Included was the Kepone chemical poisoning in Hopewell, Virginia, the Escambia Bay, FL, PCB spill of 1969 and follow up studies including work by scientists from the University of West Florida and Escambia County. Superfund Program and sites in Escambia County, FL, particularly Escambia Wood Treating Company, were also discussed. Additional speakers included: **Sylvia (Silky) Labie**, Environmental Laboratory Consulting and Technologies, LLC (ELCAT, LLC). Presentation: *Water Quality's Step Child*; **Rick O'Connor**, UF/IFAS Sea Grant, Escambia County Extension. Presentation: *Bringing Back the Bayous*; **Sandra Whitehead**, Bureau of Environmental Health, Florida Department of Health. Presentation: *Overview of Current Health Issues as Related to the State of Our Environment*; **Lauren Petty**, P.G. Geosyntec. Presentation: *Beneficial Redevelopment of Closed Landfills*; **Richard “Mike” Markey**, Manager of Land & Water Programs, Gulf Power Company. Presentation: *Innovative Environmental Projects at Plant Crist*.

**The NWFAEP** also awarded its **Annual Environmental Excellence Awards** recognizing individuals, companies and

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## FAEP

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agencies for outstanding environmental contributions from applicable projects and programs; the environmental professional of the year award; and the lifetime achievement award.

**The South Florida Chapter** held its annual symposium on November 1. The theme of the symposium was **Challenges to Rising Tides and Moving Waters**. The event was free for SFAEP Members (Non-Member Cost will be \$45 and includes 1 year membership to the SFAEP). The symposium kicked off with Keynote Speaker John Englander, author of “**High Tide on Main Street: Rising Sea Level and the Coming Coastal Crisis.**” Other topics and speakers included: **Everglades Water Flow** - John Adornato, National Parks Conservation Association; **Water Resources Planning for Climate Change: Broward County Numerical Modeling Efforts** – Michael Zygnerski, NRS IV, Broward County Natural Resources Planning and Management Division; **Mapping the Salt Water Interface** – Scott Prinos, Hydrologist, U.S. Geological Survey, Craig Grosenbacher, Chief, Natural Resources Management Miami-Dade County, and Virginia Walsh, Hydrologist, Miami-Dade County; **Broward County’s Water Quality Standards, Impaired Waters and TMDLs** - Bob Bern-hard, NRS II and Ashok Raichoudhury, P.E., Broward County Environmental Licensing and Building Permitting Division; **Integrating Engineering and Environmental Strategies to Mitigate for, and Adapt to, Climate Change Impacts to Coastal Urban Communities** - Nadia

Locke and Justin Freedman, ESciences and Fred Bloetscher, Associate Professor, Department of Civil, Environmental and Geomatics Engineering, Florida Atlantic University; **Challenges and Solution for Local Municipalities - Panel Discussion** - Hardeep Anand, P.E, Public Works Director, City of Fort Lauderdale and Fred Bloetscher, Associate Professor, Department of Civil, Environmental and Geomatics Engineering, Florida Atlantic University. There will be an **after Conference Gathering at: Sports Grill**, 2995 Sunny Isles Blvd., N. Miami Beach.

**The Tampa Bay FAEP University of South Florida, Tampa Campus, Student Chapter** has started its fall semester off with several general membership meetings, the 2013 Environmental Career Showcase/ Joint Environmental Engineering Societies (consists of USF student chapters of AWWA, FWEA, EWB, ESW etc), has been involved on the 2014 NAEP annual conference planning committee and in welcoming the NAEP Board of Directors at a social held in conjunction with the October NAEP Board meeting.

**The Treasure Coast Chapter held a very popular Hydric Soil Specialized Training for Wetland Specialists workshop.** Certifications of CEU’s earned for PWS, PSS, and PE were provided to the participants. FAEP members were able to participate in a highly specialized training offered by the renowned Wade Hurt, Soil Scientist at the Soil and Water Science Department at the University of Florida, former National Leader for Hydric Soils. The class quickly filled to its maximum 12 attendees allowing for better hands-on training.



## Georgia Association of Environmental Professionals Chapter Report

**T**he Georgia Association of Environmental Professionals ([www.gaep.org](http://www.gaep.org)) meets monthly for a variety of functions. We host Lunch and Learn programs, social events, and collaborative events for our members and the general environmental industry. GAEP seeks to bring the environmental community together to foster networking, information sharing, and the pursuit of excellence in our respective professions. For more

information on upcoming events and GAEP membership please visit the GAEP website, [www.gaep.org](http://www.gaep.org)

**November 13, 2013** - Webinar - Guiding Ideas in Transportation Planning. Time: Webinar is scheduled for 1 to 2:30 PM. Please arrive at least 15 minutes in advance. Location: At the offices of AECOM. Easiest access is via the Arts Center MARTA Station. 1360 Peachtree Street, Suite 500, Atlanta GA 30309. Cost: Free to GAEP members. \$5 Non-members. Please RSVP to Bruce Hart at [Bruce.Hart@aecom.com](mailto:Bruce.Hart@aecom.com) by November 12, 2013.

**December 6, 2013** - Member’s Appreciation Luncheon. Catered by Maggiano’s Little Italy. Date/Time: December 6, 2013 from 11:30 to 1pm. Location: The offices of HNTB, 3715 Northside Parkway (Northcreek Complex), Building 200, Suite 150, Atlanta, GA 30327. This event is free to all current members! Please RSVP to Bruce Hart at [Bruce.Hart@aecom.com](mailto:Bruce.Hart@aecom.com) by November 27, 2013



## Illinois Association of Environmental Professionals Chapter Report

For more information on upcoming events and IAEP membership please visit the IAEP website, <http://www.iaepnetwork.org/>

**November 20, 2013** – Event - The History of the Historic SWANCC Wetland Jurisdiction Decision, Bartlett Nature Center, 11am-1pm, Bartlett, Illinois

**December 4, 2013** – Event - USFWS Endangered Species Update, Café Zalute, 4:30-6pm, Rosemont, Illinois

**January 18, 2014** – Event -IAEP Annual Student Career Seminar, DePaul University, Lincoln Park Campus, 9am-12pm. Chicago Illinois.



## Rocky Mountain Association of Environmental Professionals Chapter Report

For more information on upcoming events and RMAEP membership please visit the RMAEP website, <http://rmaep.org/>

**November 14, 2013** – 11:30am – 1 pm – RMAEP November Meeting. TestAmerica Laboratories. 4955 Yarrow Street, Arvada, CO 80002. Colorado Flood Response and Recovery. For More information visit: <http://rmaep.org/meetinginfo.php?id=16&ts=1381337532>

**December 12, 2013** – 5:30pm – 8:30 pm – RMAEP Holiday Party – Lodo's Bar and Grill, 1946 Market Street, Denver, CO. For More Information visit: <http://rmaep.org/meetinginfo.php?id=17&ts=1381342934>

## North Texas Association of Environmental Professionals Chapter Report

The NTAEP program year started with a bang in September. Our lunch meeting speaker was Jaya Zyman-Ponebshek, P.E., Assistant Director of the Texas Commission on Environmental Quality's Water Quality Division. Her presentation on Phase II MS4s was well received by the 45 attendees. October's speaker, Attorney Mark McPherson, delivered a presentation on the environmental effects of drought. We have Fiona Allen, P.E. lined up for the November lunch meeting

and expect a full house for her talk on the environmental aspects of the Trinity River Authority's operations. We meet on the third Wednesday of each month from September through May, excluding the month of December. All environmental professionals are welcome to attend NTAEP meetings.

Our dedicated Board has nearly completed a business process realignment that includes a new [NTAEP.org](http://ntaep.org) website design, automated meeting registration, online membership registration and online credit card payments. Everything should be completed during the month of November. We expect these enhancements to improve the overall experience for our members. Please contact us at [membership@ntaep.org](mailto:membership@ntaep.org) if you are interested in becoming a member.

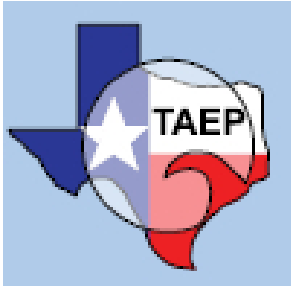
## Advertising Opportunities in the NAEP Newsletter

The NAEP Newsletter is offering a limited amount of advertising space in the publication. Advertisements will be limited to two pages per issue for 2013 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).





## Texas Association of Environmental Professionals Chapter Report

TAEP ([www.taep.org](http://www.taep.org)) sponsors monthly guest speaker luncheons, a yearly conference, monthly young professional networking events, sponsor seminars, and joint meetings with other related organizations. One of the guiding principles of TAEP when it was founded was the promotion and fostering of environmental education. Consequently, a large portion of TAEP's revenue is given back to the community in the form of scholarships and grants. TAEP provides scholarships to full-time students seeking both graduate and undergraduate degrees in environmentally related disciplines from Texas colleges and universities. TAEP also supports the Texas Envirothon (for high school students) and the Science and Engineering Fair of Houston (for middle and high school students).

For chapter information and event registration, please visit [www.taep.org](http://www.taep.org)



## Tennessee Association of Environmental Professionals Chapter Report

**November 14, 2013** - 4:30 pm CT/5:30 pm ET – Quarterly Statewide Meeting. Our second quarterly meeting linking 3 cities together via video conference will feature a presentation on the Northern Long-eared Bat, a proposed endangered species, and on the Indiana and Gray Bats by J.D. Wilhide from Jackson Environmental Consulting Services. To RSVP to this meeting please email [Sarah.Tilney@bwsc.net](mailto:Sarah.Tilney@bwsc.net) with which city you plan to attend in (Nashville, Knoxville, or Chattanooga). Also, please email [Sarah.Tilney@bwsc.net](mailto:Sarah.Tilney@bwsc.net) if you would like to be added to the TNAEP email list.

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\*APUS Alumni Employer Survey, January 2011-December 2011  
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# ENVIRONMENTAL PRACTICE

The journal of the National Association of Environmental Professionals

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## ECOLOGICAL ECONOMICS vol. 16 no. 3 (September 2014)

Due to the economic drivers underlying resource use, economic knowledge is an essential component of sustainability. Indeed, economic studies have moved to the forefront of sustainable ecosystem management and recent research has focused on quantifying the monetary benefit of ecosystem services like pollination, water filtration, and carbon storage. This special issue (or dual issue) of *Environmental Practice* will deal with some of the recent work in the field of ecological economics.

We invite manuscripts that touch on an array of themes, but are especially interested in articles that deal with:

- valuing natural resources or ecosystems
- integrated ecologic-economic modeling
- using ecological economics to inform conservation
- case-studies where methods to replace GDP have been implemented at state and local levels
- application of ecological economics in the preparation of environmental assessments (EAs) and environmental impact statements (EISs)
- communicating ecological economics in the undergraduate curriculum
  - communicating ecological economics by fostering sustainable behavior at different scales

We welcome a variety of perspectives and submissions from scholars, practitioners, and students.

**Deadline for submissions is  
February 15, 2014 to  
dcarro17@depaul.edu**

Sample issues of the journal can be found at:

<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>

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



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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.



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To find out the details, go to <http://www.apus.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.)
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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

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Mel Willis  
John Perkins  
Bruce Hasbrouck  
Teri Hasbrouck



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- Planning
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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.



## Membership Benefits

### Who We Are:

- We are a multidisciplinary, professional environmental association.
- We are dedicated to the promotion of ethical practices, technical competency and professional standards in the environmental fields.

### What We Stand For:

- We stand for Integrity in the environmental professions.
- Our foundation is our Code of Ethics and Standards of Practice.
- As environmental professionals, we serve the public, our employers, and our clients with integrity, fairness and technical objectivity.

### What We Do:

- We work for a diversity of employers, including government, industry, consulting, academia, and the private sector.
- We work in varied disciplines: air, water, noise, waste remediation, ecological resources, transportation, NEPA, sustainability, and education.

### How You Benefit:

- Annual Conference brings together nation's top environmental professionals
- Timely research through our peer-reviewed journal, Environmental Practice
- Access to Best Practices through our national committees
- Professional networking opportunities and activities through state and regional chapters
- On-line career center tailored to the environmental professions
- Bi-monthly eNews featuring research findings, perspectives and chapter activities
- Bi-weekly National Desk newsletter featuring reporting from the publisher of GreenWire and ClimateWire
- Educational webinars on diverse topics such as new regulations and guidance, review of recent case law, and other emerging issues
- Member enjoy discounts on conference, regional and local programs, and members-only page on our website [www.naep.org](http://www.naep.org)

### How We Are Unique:

- Interdisciplinary environmental practitioners
- Strong professional conduct through our Code of Ethics
- Achievement recognition through our Environmental Excellence Awards

### Affiliated Chapters:

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