

## Upcoming Meetings

### September 2010

NYSERDA Programs and Opportunity Notices

### October 2010

Price Chopper Store (Tour)

### November 2010

Energy Star®  
Benchmarking

## 2010 Chapter Officers

### President

Edward Smyth  
[edward.smyth@kema.com](mailto:edward.smyth@kema.com)  
266-9360 x301

### Vice President

Wayne DelaCroix  
[wdelacr1@nycap.rr.com](mailto:wdelacr1@nycap.rr.com)  
371-3653

### Treasurer

Yigit Guctas  
[yguctas@ls-energy.com](mailto:yguctas@ls-energy.com)  
383-9405 x212

### Secretary

James Day  
[Day-james2@aramark.com](mailto:Day-james2@aramark.com)  
433-0771 x230



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## Letter from the President

Hi all -

As we reluctantly shake off the beach sand from our shoes and return to serious business in the fall, our Chapter has much in store for you. Our board has taken time to plan our lineup of events earlier this May, and we'll begin setting up the final dates and presentations this month.

This Chapter has grown and evolved from its original inception, where we steadily grow in members who are just starting in the field, which balances out us seasoned members who have been around the energy world a few times already, or, as a Midwest utility customer coined to me, "been to more than one rodeo."

You are welcome to let us know what types of events or technologies you'd like to see presented at our chapter events. Rest assured you will not be automatically volunteered to run it - your idea is what is important. If you are interested in putting together an event, our board members will be pleased to work with you to make it happen.

Thank you,

*Ed Smyth*

Chapter President

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## Calendar of Events

### Fall 2010 Calendar of Events

September 2010: NYSERDA Programs and Opportunity Notices  
October 2010: Price Chopper Store (Tour)  
November 2010: Energy Star® Benchmarking

### Spring 2011 Planned Events

Check our calendar for further details

February 2011: Green Island Plant (Tour)  
March 2011: RPI Fuel Cell Labs (Tour)  
April 2011: Latest in Sustainable Farming (Tour)

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## Items of Interest

### International Colloquium on Environmentally Preferred Advanced Power Generation Conference announced

The Advanced Power and Energy Program at the University of California, Irvine, issued a [Call for Papers](#) for the International Colloquium on Environmentally Preferred Advanced Power Generation (ICEPAG) at <http://www.apecp.uci.edu/ICEPAG2011/>.

This conference, which is going into its 11<sup>th</sup> year, will be held February 8-10, 2011, at The Westin South Coast Plaza in Costa Mesa, California. The conference focuses on central plant and distributed generation technologies and features a plenary session followed by sessions in four tracks. Presentations address the technological, environmental, regulatory and market aspects of the featured technologies, including emerging international activity, development of international markets, and the potential for collaboration among participating countries. The four tracks are: (1) Central Plant Technologies & Carbon Capture and Storage, (2) Distributed Generation Technologies, (3) Renewable Technologies, and (4) Grid Evolution.

Short abstracts are due by Monday, August 16, and readers are encouraged to reach ICEPAG to ask about late submittals, and of course about attending this February.

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## Article

### NUCLEAR FUSION – ARE WE THERE YET?

Nuclear fusion is an interesting and seldom understood energy source that may have true potential in the future. How viable is it?

Recently, as I was sifting through the daily informative e-mails I receive from our board Vice President, Wayne DelaCroix, I noticed one about the review of the peak oil prediction. Deep in that e-mail, one specific sentence in a US Energy Information Administration presentation was enough to sum up the issue for me.: “Using the USGS mean (expected) resource base estimate (3,003 billion barrels), and an annual production growth rate of 2% (similar to the current rate), the estimated peak production year is 2037”.

I can hear most of you say “Oh, well, we heard that story before”, or, “Didn’t oil peak back in 2004?” One way or another, there is one thing for sure – oil is a finite source, and as our population on this planet is expected to reach 7 billion by the year 2011, new and hungry economies will emerge. As any emerging economy, they will heavily depend on oil. Will there be enough?

How about coal? There is plenty of that around. Problem is – we are losing the most precious thing we hold near and dear to us – our planet. It seems like climate change is accelerating even more than expected, and since coal has very high greenhouse gas emissions, this is already creating a lobby against once all mighty coal industry. Although some recent advancements are promising to reduce the emissions from coal power plants, much more needs to be done to deem the coal a truly “clean” fuel, if at all possible.

Alternative energy sources such as wind and solar are both great, but they are just alternatives, and they will never be major large capacity power generators.

Then there are the nuclear fission power plants. As of 1997, there were a total of 437 nuclear power plants on the face of planet earth, operating in 30 different countries, with a total generating capacity of 351,795 MW. As of the same year, there were 35 more in construction, with a total capacity of 25,878 MW. Today, France is the leading country, generating more than 78.8% of their electricity (426 TWh) by nuclear power. Furthermore, there are a total of 56 countries, with a total of 250 research reactors, as well as 220 nuclear reactors, powering mighty military (and few less mighty commercial) sea vessels. Why the statistics? Well, for one very good reason: with the exception of the research ones and vessel mounted ones, each one of these reactors are a potential Chernobyl waiting to happen.

What do we have left? Oh yes – the infamous nuclear fusion. It is my personal favorite, mostly for the fact that I ended up writing a thesis on the subject, and ten years later, still fascinates me. One problem though: we did not achieve it yet – or did we? Sure we did! Not recently, not even 10 years, or 20 years ago. Nuclear fusion was achieved in 1947, in the Imperial College of London. A lot has changed ever since.

[\[CLICK HERE FOR MORE\]](#)

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## Career Section



## *Energy Professionals Needed:*

**Natek Corporation** - The Premier Energy Recruiting and Placement Firm has immediate Local and Nationwide openings.

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Please visit our site at <http://www.natek.com> for a list of current job descriptions and helpful Energy links or Contact Mark Dillon @ 583-0456 or [mdillon@natek.com](mailto:mdillon@natek.com).

All inquiries are in strict confidence.

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## Chapter Dues: Membership

### 2010/2011 Local Membership Application Form

We invite you to renew your membership or join the NY Capital Region Chapter of Association of Energy Engineers. The NY Capital Region Chapter is a non-profit organization designed for all types of professionals in the energy industry. The goal of the Chapter is to provide informative, topical, educational meetings that will bring together individuals with the same interest to network and to help you to keep current on the latest topics in the energy field. Local dues pay for mailings, web and local meeting costs.

National membership is separate from local chapter membership. The chapter receives financial credit for every local member who is also a national member. Dues are as follows (circle one):

- Professional membership: **\$15**
- Student membership: **no charge**

Gold Corporate/organizational membership: **\$150**

*NEW! Includes up to five (5) professional memberships and a business card-sized listing for your organization in the chapter newsletter and listing of your company services on web-site for the year. Job postings will be available at a reduce rate of \$10.00 per posting for a 60 day listing*

Platinum Corporate/organizational membership: **\$250**

*NEW! Same as above with unlimited number of members within the organization and listing of your company services on web-site for the year. Up to 10 Job postings will be available free of charge for a 60 day listing*

**NEW! ADVERTISING NOW AVAILABLE ON WEB-SITE and NEW-LETTERS** - Standard rate for job posting are \$20.00 for non-member and \$15.00 dollars for local members for a 60 day listing. (this includes free listing in our newsletter as well)

Additional voluntary amount for AEE chapter scholarship fund: \$ \_\_\_\_\_

Please:

Fill out the attached form here [membership form](#)

Return with a check payable to "NY Capital Region AEE" to:

**Yigit Guctas, Treasurer**  
**NY Capital Region AEE**  
**c/o L&S Energy Services, 58 Clifton Country Rd., Suite 203, Clifton Park NY**  
**12065**  
**[yguctas@ls-energy.com](mailto:yguctas@ls-energy.com)**

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<http://www.bartonandloguidice.com/>



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17 Columbia Circle  
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(Tel) 518-862-1091  
<http://www.nyserda.org/>



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10260 Campus Point Dr.  
San Diego, CA 92121  
(Tel): 858-826-6000  
<http://www.saic.com/>