

Queens Chapter

New York State Society of Professional Engineers

The Drawingboard

September 2016

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Next General Membership Meeting

The next general membership meeting will be held on Thursday September 22, 2016 at 6:15pm. at 422 Weaver Ave in Ft. Totten, NY

The admission fee is \$20 for members and \$30 for non members.

6:15-7:00pm Buffet Dinner

7:00-7:30pm General Membership Meeting

7:30-8:30pm Presentation – Han-Hui Lin of the Henry Company will present "Understanding Air Barrier Systems and Design Options"

Presentation Outline

Learning Objectives:

How to create an effective air barrier, a rain barrier and where appropriate, a vapor barrier.

You will learn:

- What is an air barrier and how is it different from a vapor barrier?
- What's the difference between air and rain barriers and a weather resistive barrier?
- What is a breathable membrane
- How can you incorporate these technologies into your building design?
- Can you ignore air leakage?
- What are current codes and standards?
- What's the anticipated energy savings?

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Rules Update

**Proposed Rules Gov
b viewed at:**

the City of New York can

<http://rules.cityofnewyork.us/proposed-rules>

- [Revised Proposal Changes for the Industrial and Commercial Abatement Program \(ICAP\)](#)
- [Fire and Life Safety Director Certificate of Fitness](#)

Link of the Month

An old article with depictions of Lower East Side flood mitigation projects: <http://www.dailymail.co.uk/news/article-2987993/Protecting-Manhattan-Hurricane-Sandy-Stunning-plans-revealed-Dryline-10-miles-waterfront-park-disguise-crucial-flood-defences.html>

Engineering as a College Major

Reprinted from: <http://njspe.org/2016/08/29/engineer-as-a-career/>

When entering college, you may know exactly what you want to do, or you might be completely lost. If you have always been strong in both mathematics and creative thinking, engineering could be the solution. It takes a special type of mind to be an engineer, as this field uses both sides of the brain. There are dozens of types of engineers, so there are plenty of options and variety within the field.

Engineers are generally highly paid, and the likelihood of finding a job straight out of college is much higher than that for a business or arts major. According to the Bureau of Labor Statistics, for example, chemical engineers make an estimated \$103,960 annually and employ 32,230 people as of May 2015. Nuclear engineers make a mean annual wage of \$106,060 and employ 16,880 workers. One of the highest paid types is petroleum engineers, who make an estimated \$149, 590 each year with 34,600 people.

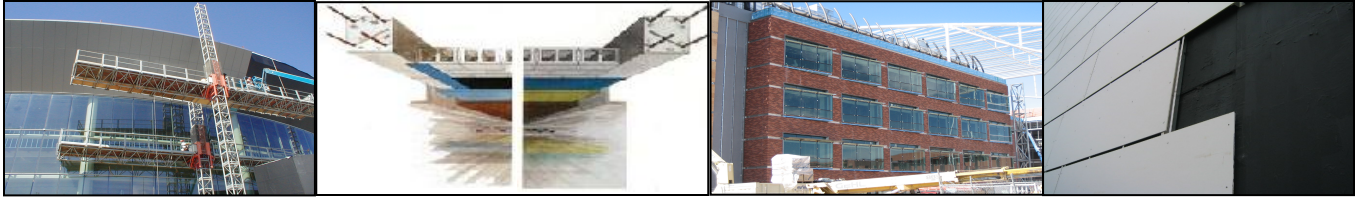
In 2012, Forbes said that biomedical engineering is one of the most worthwhile fields to enter the job market in, as they earn roughly \$61,000 as a starting salary. According to Payscale, entry-level mechanical engineering positions pay an average salary of \$62,500 and entry-level electrical engineering jobs pay an average starting salary of \$65,000. These average starting salaries are about 15 to 30 thousand dollars more than the

average entry-level salaries of education majors, accountants and business majors, and communications majors. It is much more rewarding to leave college with a high paying job while you are knocking out those student loans.

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When joining NJSPE, you become part of a large society of individuals who are equally committed to their careers. They share the same passions you do for engineering. Members gain opportunities for outreach and are able to make connections with experienced professionals who can serve as mentors for those who have recently graduated from college. You can participate in continuing education programs and advance in your field.

At NJSPE, we believe there is always room for improvement and acceleration in the career journey. No matter your age, with us there are ongoing possibilities for you to strengthen as both an engineer and an individual. Fill out a membership application today by applying online or in the mail, and begin your time with NJSPE.



Understanding Air Barrier Systems And Design Options

Qualifies for 1 AIA HSW and SD Unit

THE **DOE & AIA** HAVE CONCLUDED THAT 40% OF ENERGY USED TO HEAT & COOL OUR BUILDINGS IS WASTED THROUGH AIR SEEPAGE.

MOLD AND **MILDEW** ISSUES ARE ALSO DRIVING THE DEMAND FOR AN EFFICIENT AIR AND RAIN BARRIER FOR THE EXTERIOR WALL ENVELOPE.

ASHRAE 189 STANDARD FOR THE DESIGN OF HIGH PERFORMANCE GREEN BUILDINGS, MODEL CODE – SUSTAINABILITY FOR COMMERCIAL BUILDINGS REQUIRES A CONTINUOUS AIR BARRIER FOR IMPROVED ENERGY SAVINGS.

ADDITION OF AIR BARRIERS FOR IMPROVED ENERGY SAVINGS GOALS FOR **ASHRAE 90.1** AND **LEED v3**.

NPFA 285 HAS BEEN IN THE FOREFRONT OF MOST DESIGNERS. LEARN WHAT THE STANDARD REQUIRES AND HOW THE HENRY COMPANY HAS BEEN PROACTIVE IN ADDRESSING THE MARKET NEEDS.

PRESENTATION WILL DESCRIBE HOW TO CREATE AN EFFECTIVE AIR BARRIER AND RAIN BARRIER AND WHERE APPROPRIATE, A VAPOR BARRIER.

YOU WILL LEARN:

- ✓ WHAT IS AN AIR BARRIER? HOW IS IT DIFFERENT FROM A VAPOR BARRIER?
- ✓ WHAT'S THE DIFFERENCE BETWEEN AN AIR & RAIN BARRIER VS WEATHER RESISTIVE BARRIER
- ✓ WHAT IS A BREATHABLE MEMBRANE?
- ✓ HOW TO INCORPORATE THIS TECHNOLOGY INTO YOUR BUILDING DESIGN
- ✓ WHAT ARE THE SYSTEMS TO ACHIEVE THIS?
- ✓ WHAT ARE THE EFFECTS IF YOU IGNORE AIR LEAKAGE?
- ✓ WHAT THE CURRENT CODES AND STANDARDS ARE
- ✓ WHAT ARE THE ANTICIPATED ENERGY SAVINGS?

LET THE EXPERTS AT **HENRY COMPANY** ANSWER THESE QUESTIONS AND MORE. **HENRY COMPANY** HAS COMPLETED OVER 450 MILLION SF OF AIR AND RAIN BARRIERS THROUGHOUT NORTH AMERICA. FIND OUT WHICH SYSTEM IS RIGHT FOR YOUR PROJECT.

SPEAKER: HAN LING IS THE TERRITORY SALES MANAGER FOR THE HENRY COMPANY'S BUILDING ENVELOPE SYSTEMS DIVISION FOR THE NYC AND NORTHERN NJ MARKETS. HE IS A MEMBER OF CSI AND A CDT AND ALSO ACTIVE IN BEC.

FOR IMMEDIATE ASSISTANCE CONTACT HAN LING @ 214.886.3662, OR HLING@HENRY.COM



Fall 2016



RSVP FOR THE JAMAICA BAY LTCP KICKOFF MEETING! IT'S LESS THAN A WEEK AWAY!
[Click Here](#)

Check out one of our upcoming public meetings!

The New York City Department of Environmental Protection (DEP) is committed to managing stormwater runoff and improving water quality in NYC's waterways. Join us at any of our upcoming meetings to learn more and get involved!

GREEN INFRASTRUCTURE GRANT WORKSHOP

September 21st | 3:00-5:00PM | Manhattan
Meeting Details/RSVP [Click Here](#)

Did you know that DEP provides funding for the design and construction of green infrastructure on private property? Workshop attendees will learn about the application process and grant program requirements.

JAMAICA BAY LTCP KICKOFF

September 22nd | 6:30-8:30PM | Queens
Meeting Details/RSVP - [Click Here](#)

DEP is developing a Long Term Control Plan (LTCP) to identify and evaluate alternatives to reduce the impact of combined sewer overflows (CSOs) in Jamaica Bay. Attendees will learn about the LTCP process, and the waterbody and water quality characteristics of Jamaica Bay.

STORMWATER ADVISORY GROUP*

September 27th | 2:00-3:30PM | Brooklyn
Meeting Details/RSVP - [Click Here](#)

DEP is developing a Stormwater Management Program (SWMP) to address pollution caused by stormwater runoff in separately sewered areas. Attendees will learn more about the Pollution Prevention/Good Housekeeping provision of the SWMP and the City's plans to control stormwater at City facilities.

DID YOU KNOW...
You can now view a map of the City's green infrastructure installations? Check it out [here!](#)



Learn more about DEP's stormwater programs by clicking the links below!
[MS4 Program](#)
[LTCP Program](#)
[NYC Green Infrastructure Program](#)

- [Forward to a Friend](#)
- [Follow on Twitter](#)
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September 27th | 4.00 -6.00 PM | Brooklyn
Meeting Details/RSVP - [Click Here](#)

Are you interested in reducing the amount of trash and litter that goes into New York City's waterways? Please join our new Floatables Working Group to explore the issue of trash and litter's impact on water quality.

**These meetings will be held back-to-back with a 30 minute break. Feel free to come to one or both!*

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Travelers' Webinar Series for Design Professionals

WHAT YOU NEED TO KNOW ABOUT YOUR PROFESSIONAL SERVICES CONTRACT

Contracts are important legal documents and are also an important risk management tool if properly drafted, reviewed, and executed. This presentation will help design professionals better understand various provisions in their contracts and which provisions may fall outside the scope of professional liability coverage or may increase their professional liability exposure.

Participants will learn:

1. The legal basis for professional liability
2. What are the key contract provisions that may fall outside the scope of professional liability coverage or increase professional liability exposure
3. How to identify problematic contractual clauses and suggestions for negotiated changes
4. Sample contract provisions that are appropriate for professional service agreements

Speaker

David A. Ericksen, Esq.
- *Severson & Werson*

Moderator

Joseph H. Jones, Jr., Esq., AIA
- *Travelers*

This program has been registered with the AIA for 1 CEU. Information on how to obtain AIA credit or a certificate of participation will be distributed after the webinar.



RSVP TODAY!

When

**Wednesday, October 12, 2016
1-2 p.m. EST**

[REGISTER HERE](#)

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