

EIGHTH ANNUAL ENERGY AND RESOURCES CONFERENCE

ADVANCES IN ENGINEERING MATERIALS

MONDAY, SEPTEMBER 15TH, 2014 AT THE CON EDISON BUILDING, NEW YORK, NY

WELCOME

Welcome to the Eighth Annual Energy & Resources Conference at the Con Edison Building, our venue for the past five full-day events. These conferences have been an activity of the Metro New York Section of the American Institute of Chemical Engineers since 2006.

We anticipate offering PDH credits for New York State Professional Engineers for this event. Please check back for the status of PDH accreditation.

Organized by the Metro New York Section,
American Institute of Chemical Engineers.

Register / Pay via Credit Card at the AIChE,
Metro NY webpage: www.aiche-metrony.org

This year's conference will
focus on the Advances in
Engineering Materials.

Presentations will focus on
such specific areas as:

Stainless Steels, Coatings for
Steels and Concrete,
Nondestructive
Examination, Metal
Chemistry, High-
Performance Plastics,
Mechanical Insulation
Materials and Systems, and

Nano-Particle Surface-
Modified Thin-Film
Composite Membranes.

The meeting will take place
at the historic Con Edison
Building, 4 Irving Place,
New York, NY.

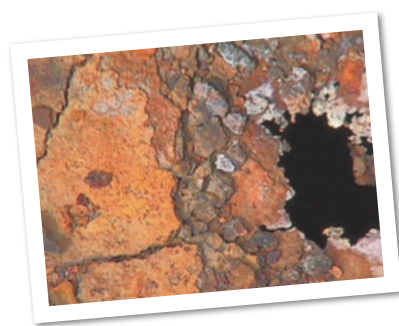
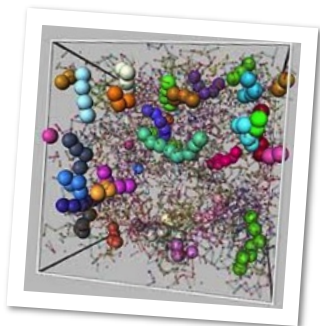


Organized by the Metro New York Section, AIChE



Co-Sponsored by the ASME, Metropolitan
New York Section





Eighth Annual Energy & Resources Conference Monday, September 15th - Con Edison Building

SCHEDULE

You must be pre-registered to gain access to this conference.

7:30 am - Registration /
Continental Breakfast

7:30 am **Continental Breakfast**

8:15 am - Welcome and
Opening Remarks

8:15 am **Welcome:** Mary Lynch, Chair of AIChE, Metro New York Section

8:30 am - Richard Huza

8:30 am **Primary Corrosion Protection.** Speaker: Richard Huza, Salit Specialty Rebar, Niagara Falls, NY

9:15 am - Craig Cowan

9:15 am **Polymer Technology – Extending Equipment Life, Reducing Downtime, and Saving Maintenance Dollars.**

Speaker: Craig Cowan, ENECON Northeast APS, Farmingdale, NY

10:00 am - Break

10:00 am **Break**

10:15 am Todd Smith and
Jacque Brignac

10:15 am **Advanced Boiler-Material Challenges: Inspection Case Studies.**

Speakers: Todd Smith and Jacque Brignac, Alstom Power, Winsdor, CT

11:00 am - Bodo Albrecht

11:00 am **Metal Chemistry – Exponential Developments that Shape our Future.**

Speaker: Bodo Albrecht, BASIQ Corp., Westfield, NJ

11:45 am Lunch

11:45 am **Buffett Lunch**

12:15 pm - Harold Queen

12:15 pm **Keynote Address: Advanced and Emerging Non-Destructive Examination Technologies.** Speaker: Harold Queen, Structural Integrity Associates, San Jose, CA

12:45 pm Robert James

12:45 pm **LNG - Filtration Applications to Optimize Plant Reliability.**

Speaker: Robert James, Pall Filters, Pall Corp., Port Washington, NY

1:30 pm - Paul Hanson

1:30 pm **What Would You Like Your High Performance Plastic to Do?**

Speaker: Paul Hanson, AIN Plastics Division, ThyssenKrupp Materials, New York, NY

2:15 pm Break

2:15 pm **Break**

2:30 pm - Chris J. Durning
and Luis Escobar-Ferrand,
P.E., Ph.D.

2:30 pm **Fabrication and Performance of Nano-Particle Surface-Modified, Thin Film Composite Membranes.**

Speakers: Christopher J. Durning, Columbia University, New York, NY and Luis Escobar-Ferrand, P.E., Ph.D., Pall Corp., Port Washington, NY

3:15 pm Gordon H. Hart,
P.E.

3:15 pm **Recent Advances in Mechanical Insulation Materials and Systems.**

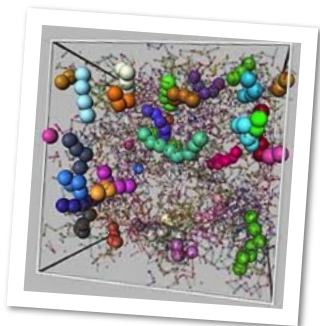
Speaker: Gordon H. Hart, P.E., Artek Engineering LLC, Boston, MA

4:00 pm Close of
Conference

4:00 pm **Closing**

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ADVANCES IN ENGINEERING MATERIALS

ABOUT US

The Metro New York Section, AIChE aims to serve those chemical engineers residing or working within the Metropolitan New York region.

- Help advance the profession of chemical engineering by disseminating technical, regulatory, business and educational information related to the profession and practice of chemical engineering

- Help its members attain their professional goals throughout their careers

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ENERGY & RESOURCES CONFERENCES

**2014: Advances in
Engineering Materials**

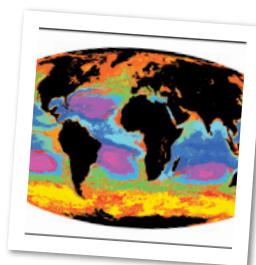
**2013: Challenges &
Opportunities in
Climate Change**

**2012: Cancelled due
to Super Storm Sandy**



**2011: Our Crucial
Water Supply;
ensuring its future**

**2010: Emerging Sources
of Energy: Challenges
and Opportunities**



**2009: From Concept to
Commercialization:
Funding Innovation for
a New Economy**

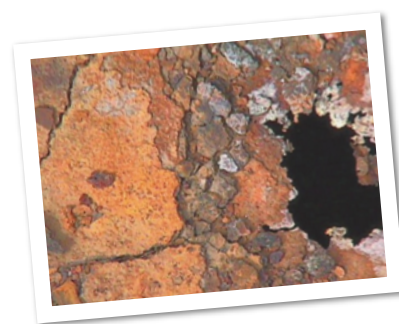
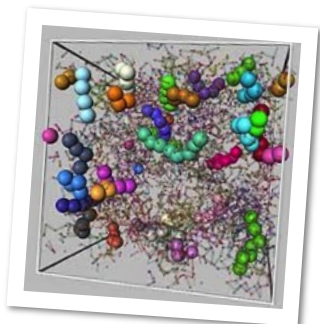
**2008: Water: The Next
"Oil"**

**2007: Reducing Carbon
Dioxide Emissions**

**2006: Energy for a New
Century: Beyond
(\$50/Barrel) Petroleum**



*Images: U.S. Global Change Research Program
(www.globalchange.gov).*



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SPONSORS

Become a sponsor of the Seventh Annual Energy & Resources Conference.

This conference is organized by the Metro New York Section of the American Institute of Chemical Engineers, who needs your support to continue its outstanding technical program and its educational outreach to the chemical engineering community in the Greater Metro New York area.

Download Sponsorship [Flyer](#) for details.

The Metro New York Section, AIChE
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Platinum Level

Con Edison provides electric service in New York City and Westchester County. Also provides natural gas service to parts of its service area. Con Edison owns and operates the country's largest district steam system, providing steam service in most of Manhattan.

Dynalitics Corp.

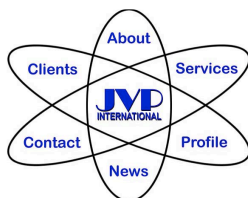


www.dynalitics.com

Silver Level

Founded in 1969, Dynalitics provides energy-related expertise to the private, the not-for-profit, and the government sectors. Dynalitics Corp. has earned its reputation for excellence by consistently developing creative approaches for clients as they face ever more complex economic, technical, and regulatory challenges throughout the world.

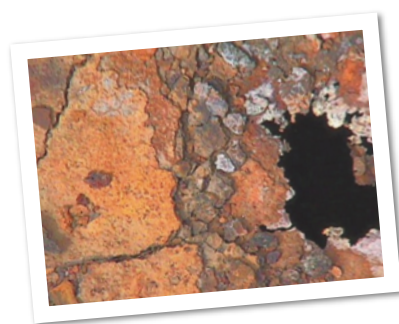
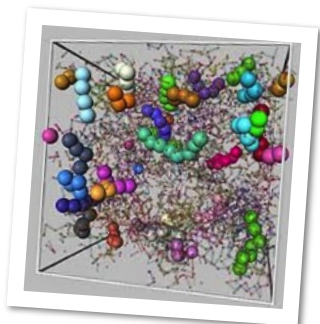
JVP International



<http://www.jvporcelli.com>

Silver Level

Joe Porcelli, owner of JVP International and former CEO of Halcon/Scientific Design advises organizations in developing new catalyst and process technologies. His specialties are heterogeneous catalyst and reactor design. Recent technologies include methanol, acetic acid, ethylene oxide/glycol, biomass processing and pyrolysis. Clients include companies, investors, lawyers, and other consultants.



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VENUE

The historic Con Edison Building is located at 4 Irving Place, between 14th and 15th Streets, in lower midtown Manhattan (New York City).



It is easily accessible by public transportation. Numerous subway lines have stops nearby (14th Street / Union Square Station), including these trains: 4, 5, 6, L, N, Q, R, and W.

The Metro New York Section, AIChE

[Website](#)

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Thank you to our Sponsors.

ASME, Metropolitan New York Section

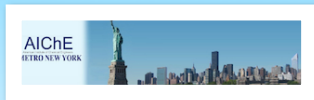


sections.asme.org/metropolitan_ny/

Bronze Level

ASME (founded as the American Society of Mechanical Engineers) is a not-for-profit membership organization that enables collaboration, knowledge sharing, career enrichment, and skills development across all engineering disciplines, toward a goal of helping the global engineering community develop solutions to benefit lives and livelihoods.

Metro New York Section, AIChE



www.aiche-metrony.org
 Become a Member of the Metro NY Section of AIChE. Local Section Dues are only \$10.

Organizer of the Eighth Annual Energy and Resources Conference (September 15, 2014)

Future Meetings: • **Tuesday, Oct. 21**, Annual Meeting at the Ukrainian East Village Restaurant, (5:30 - 7:30 pm) • **Monday, Nov. 10**, Student Event • **December event** (date to be determined), Joint Meeting with the Metropolitan Section of the ASME at the Ukrainian East Village Restaurant • **Tuesday, Jan. 20**, Dinner Meeting at Pfizer Building, 219 East 42nd Street, Manhattan.

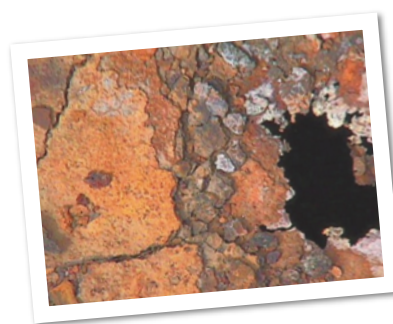
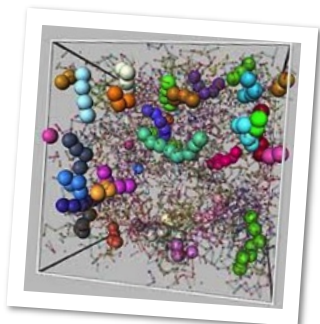
Tappan Zee Section, AIChE



www.tzaiche.org/

Bronze Level

The Tappan Zee Section of the American Institute of Chemical Engineers is based in the lower Hudson Valley of NY State, and serves chemical engineers in Rockland and Westchester Counties. They maintain ties to other area societies, including other AIChE sections, the American Chemical Society's Westchester chapter, and the Hudson Valley Council of Technical Societies.



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Topics for Future Meetings

We value your opinion as a fellow engineer.

Are the topics shown on the right of interest to you? Would you be attending a meeting if we had a top speaker on any of these topics?

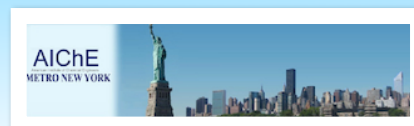
A topic that was being considered via this forum (Critical Water Issues) become the focus of a previous year's Energy and Resources Conference.

Biocatalysis • Biochemical Engineering • Biodiesel from Food Wastes • Bioprocessing • Fuels and Chemicals from Cellulosics • Green Chemistry • Green Engineering • Preparing a Feasibility Study • Process Safety Metrics • Infamous Process Safety Incidents • Stem Cell Engineering • Sustainability • Nanotechnology • Methane Harvesting from landfills/waste • Change Management • Competitive Intelligence • Critical Energy Issues • Ethics • Managing Innovation • Project Management • Strategic Planning • Triple Bottom Line • Bioterrorism • Climate change • Zero Waste manufacturing • Consulting • Continuing Education: Higher Degree, MBA, PE, Other Field? • Negotiation • Professional Licensing • ChEs and Due Diligence • Future Careers for ChEs • Post-Retirement Careers • New Materials of Construction • Where are Chemical Engineering Jobs • Strategic Minerals / Rare Earths needed for electronic devices • Pending regulations for air pollutants • Natural gas harvesting via "fracking" shale rock. What are the environmental consequences? • Estrogen mimics in the environment • Professional Excellence

2014 Energy & Resources Conference Program Committee

• Mary K. Lynch, Con Edison • Joseph Porcelli, JVP International • Christopher Bentley, Con Edison • Scott J. Price, UOP LLC • Ariel Czemerinski, AMC Engineering, PLLC • Joel J. Kirman, Envirodactics • David J. Deutsch, Vista Marketing & Financial

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Local Section Dues for 2014-15 are only \$10. As a Member, you will save \$10 off the fees for the next local section Meeting, and all meetings during 2014-15 (including \$25 at the next Energy & Resources Conference). Pay dues at: <http://www.aiche-metrony.org/Pay/Dues.html>