

ASME Hudson-Mohawk Section

Joint Engineers Week Meeting Overview / Tour of Albany NanoTech and Dinner



**University at Albany, SUNY
255 Fuller Road, Albany, NY
Thursday, March 1 2007
4:00 PM**

Reservation Required:

by Thursday, February 22, 2007 at 9:00 AM.
Mike Brilliant: howard.brilliant@ge.com or 518-385-3318

Cost:

- Members and one guest of member: \$25.00 / person
- Students (with school ID): \$10.00 / person
- Non-members, late registrants, and second or more guests: \$30.00 / person

<http://www.albanynanotech.org/>

SuperPower Tour



**SuperPower, Inc.
450 Duane Ave. Schenectady, NY
Thursday, March 15 2007
5:00 – 7:00 PM**

Reservation Required:

First 30 People by Tuesday March 13 2007
Paul Kehoe: 518-385-0329

<http://www.superpower-inc.com/>

Tour of Albany Nanotech

University at Albany, SUNY
255 Fuller Road, Albany, NY 12203
<http://www.albanynanotech.org/>
Thursday, March 1, 2007 at 4:00 PM
Overview begins at 4:00 PM.
Tour begins around 4:45 PM.
Dinner begins around 5:30 PM.

The College of Nanoscale Science and Engineering of the University at Albany-State University of New York is the first college in the world dedicated to the research, development and education of nanoscience, nanoengineering, nanobioscience and nanoeconomics. CNSE's Albany NanoTech complex is the most advanced research facility of its kind at any university in the world: a \$3 billion, 450,000-square-foot complex that attracts corporate partners from around the world and offers students a one-of-a-kind academic experience. The Energy and Environmental Technology Applications Center (E2TAC) at CNSE provides a critical platform for the college and its partners to leverage its intellectual power base and state-of-the-art infrastructure by providing an applications-targeted resource that supports technology development that leads to the integration of advanced energy and environmental technology.

Presented by Pradeep Haldar

Professor; College of Nanoscale Science & Engineering,
Director of Energy & Environmental Technology Application
Center and Head of Engineering Constellation
Research areas: Advanced photovoltaics, advanced fuel cells,
next generation superconductors, advanced power electronics

Directions:

From North and Airport:
Proceed South on I- 87 to I-90 East (Albany/ Boston).
Take Exit 2 (University at Albany, Washington Ave.)
Bear right onto Washington Avenue.
Turn left at first stop light onto Fuller Road.
Proceed South on Fuller Road and turn right at first stop light.
At stop sign, turn right into CNSE parking lot.

From East, West, South:
Take Exit 24 from NYS Thruway.
Proceed East on I-90 from Toll Plaza.
Take Exit 2 (University at Albany, Washington Ave.)
Bear right onto Washington Avenue.
Turn left at first stop light onto Fuller Road.
Proceed South on Fuller Road and turn right at first stop light.
At stop sign, turn right into CNSE parking lot.

Please allow extra time for parking, as the lot may be near capacity. Enter in the main door of the cylindrical lobby of the green glass building (CESTM), which borders on Washington Ave.

Joint Engineers Week Meeting

- American Society of Mechanical Engineers
- American Institute of Aeronautics and Astronautics
- Institute of Electrical and Electronics Engineers (Electron Devices Society)

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
HUDSON MOHAWK SECTION
PO BOX 206
Schenectady, NY 12301

Reservations are required. Please contact Mike Brilliant at howard.brilliant@ge.com or phone (385-3318) by Thursday, February 22, 2007 at 9:00 AM.

Buffet dinner is provided with cash bar (beer and wine) Choice of beef, fish and vegetarian.

Tour of SuperPower, Inc.

450 Duane Ave., Schenectady, NY 12304

www.superpower-inc.com

Thursday, March 15 : 5:00 – 7:00 PM

SuperPower, Inc., of Schenectady, uses core capabilities in materials, cryogenics and magnetics to develop electric power components such as underground transmission and distribution cables, transformers, fault current limiters and motors and generators, utilizing state-of-the-art second generation high temperature superconducting (2G HTS) technology.

- Low power loss, increased current carrying capacity *transmission cables*
- Higher efficiency, lighter and more compact *transformers* with lower life cycle costs
- *Superconducting Fault Current Limiters* (SFCL) provide the ability to limit damaging high-current transients (due to lightning strikes, tree limbs, etc.)
- *Motors and generators* with increased efficiency, smaller footprint and weight for energy savings, reduced pollution per unit of energy produced, and lower life-cycle costs

More than 7% of the energy generated in the U.S. is lost during transmission and distribution. The U.S. Department of Energy estimates that half of this loss could be eliminated by the application of HTS. This saving could amount to \$16 billion per year, reducing our use of fossil fuels, as well as the generation of greenhouse gases and pollutant emissions.

The tour will provide an overview of the company, its technology and development programs, and a tour of the world-class manufacturing facility for 2G HTS wire.

RSVP to Paul Kehoe 518-385-0329 by Tuesday March 13
Tour limited to first 30 people

Directions from NYS Thruway Exit 25

- Merge onto I-890 W via EXIT 25 toward SCHENECTADY / RT-7 / RT-146 (Portions toll).

- Take the MICHIGAN AVE exit- EXIT 6.
- Turn right onto S BRANDYWINE AVE.
- Turn right onto DUANE AVE / NY-146.

Opportunities:

Computational Fluid Dynamics (CFD) Professional

Position is based in Upstate New York and client is seeking professionals skilled in CFD, including mesh generation. Candidates should have 10+ years experience applying CFD to the analysis and design of large-scale industrial equipment; preferably turbo machinery or aircraft industry. Should have experience using both ICM Hexa and Fluent. A Master's degree is required and a PhD is preferred. Must have a Green Card, US Citizenship is preferred. Salary is OPEN. Contact Bob Cunningham at ryc@profiledistillers.com 914-241-2450

Principal or Managerial Mechanical Engineer

Position is based in New Jersey. Client is a power supply/power conversion mfr. They are seeking a Principal or Managerial Mechanical Engineer with experience in power supplies/power conversion. Should have hands-on new product design, packaging and PCB experience in this field. A Bachelor's degree in Mechanical Engineering with a minimum of 5 years experience. Should be familiar with Pro-E, Cadence and advanced computer programs. Salary is OPEN. Contact Bob Cunningham at ryc@profiledistillers.com 914-241-2450

To post career opportunities in the field of engineering please contact Mark Frontera.

(frontera@research.ge.com): (518-387-5323)

Distribution of Section Newsletter

The Hudson Mohawk newsletter is posted at:

www.asme.org/sections/udson-mohawk.

Once each newsletter is posted on the Section's web page, an e-mail notification and link to the above website is sent to members who have e-mail addresses in the ASME member database. If you are an active member of ASME and did not receive an e-mail notification, please go to the ASME web site and update your membership information. <http://members.asme.org/myasme/login/myasme.cfm>
