



# NJHEPS

# July 2008

*From the Executive Director:*

Yesterday NJHEPS held our Summer NJHEPS Energy Workshop at William Paterson University in Wayne New Jersey. We had a great group of speakers, and better yet, a great audience. We heard about many of the good things that have happened at WPU in energy-efficiency, which has resulted in significant cost savings and a lower environmental footprint. We had a warm welcome from Arnold Speert, President of William Paterson, who explained why he signed the American College & University President's Climate Commitment, and how he looked forward to continued partnership with NJHEPS on integrating sustainability into their campus operations, curriculum and communities.

Our first speaker, Dr. Martin Ludwig, was an example of their innovative community commitment, as WPU staff and faculty have committed significant effort into supporting Wayne Township's proposed Cogeneration and Renewable Energy Project at the Township's large municipal campus that includes a high school, elementary school, police HQ, municipal building and recreation complex. It will include a cogeneration plant, wind turbine, solar PV arrays, and a geothermal system. It will allow a third of the site's energy to come from renewable sources, and with the cogeneration, wind and solar systems it will be able to operate independent of the grid if needed in an emergency. The most intriguing idea for me was that Wayne Township will have the heating and chilling pipes run in a loop trench around the site with an optical cable to carry data and with the geothermal pipes in the bottom of the trench. This saves significant costs by eliminating the cost of drilling a vertical well or disrupting significant land for a horizontal geothermal field. No new technologies, just innovative combinations of existing technologies.

We also heard from Andy Topinka

of the US Green Building Council's NJ Chapter about energy-efficient transformers for college settings (as recommended by the NJHEPS High-Performance Building Guidelines), and the activities within LEED Standards related to energy use. Joe Pessa of Tozour-Trane gave an interesting presentation about direct contact heat exchangers that eliminate the waste heat going up the stacks from boilers, a technology that has been used extensively in Canada, including as several universities and colleges. Frank Napoli of ConEdison Solutions spoke about energy efficiency upgrades through energy performance contracting, and the need for a real partnership between a school and the contractor to make such arrangements work.

One of the highlights of the workshop was hearing Greg and Connie Mattison describe their "Green By Design" TV show which features sustainability issues, including climate change and energy use. The show reaches over 3 million cable TV viewers in the Tri-State area, and they are looking for innovative schools to talk about their sustainability successes on camera for their show. This led to the idea that NJHEPS should hold a workshop during the coming year about how to communicate the good things we do on sustainability issues to the public. Mayor Art Ondish of Mount Arlington spoke up from the audience about the new sustainability committee of the NJ Association of Mayors, of which he is a member, and promised to get NJHEPS and the mayors to discuss how we might work together on sustainability and climate change issues.

Speaking of communications, during the workshop breaks, I had the honor to be interviewed by both the WPU radio station and WPU campus TV station about NJHEPS and what we are doing about sustainability. I hope we can get the footage for our NJHEPS website.

The entire NJHEPS Energy Workshop was taped by WPU's students, and we hope to be able to place it on our website and/or distribute it by DVD. The final presentation was an overview of the many energy conservation activities at WPU, given by Dr. Dick Pardi, a professor of environmental studies at WPU and a member of the school's sustainability committee, which led to an interesting question and answer period on what had worked at WPU, and what lessons were to be learned from trying to conserve energy (and money) in the campus setting. I think all attendees went home with a better feel for how one institution is making a difference, and we all learned something we can apply to our own campuses.

Such a successful seminar leads me to say I can't wait to this fall to see what other great workshops we will have for our member institutions. I would also point out that other organizations are doing great things in New Jersey, including the Apollo Alliance's "Newark Green Future" conference being held at NJIT on 11-12 September, the seminar Princeton University is holding on 17 September on their newly-launched University Sustainability Plan, the launch of the Raritan Valley Community College Cogeneration Plant on 25 August, and the USGBC-NJ Chapter's summer social event on August 7. More details on these events are included elsewhere in this newsletter.

I hope to hear from you all soon about the great sustainability ideas you have come up with over the summer on the beach, by the pool or on the hiking trail, and please share them with NJHEPS so we can continue our role as gate-keepers of sustainability information. Enjoy the rest of the summer of 2008!

## *Georgian Court Goes Greener*

University Becomes the First in NJ to Purchase All Electricity from Renewable Resources

Georgian Court University has announced that it is the first higher education institution in New Jersey to purchase all of its electricity from renewable resources. The university has purchased approximately 6,122,000 KWh of wind power, an amount equivalent to the university's annual electrical power usage, in the form of Green-e certified Renewable Energy Certificates (RECs). The energy is created from a national blend of wind energy sources supplied by Constellation NewEnergy and was procured with assistance from the Loyaltan Group, a utilities consulting firm based in Hastings, Minnesota. The decision to purchase wind power supports the mission of the university and is a part of the university's commitment to sustainability.

"One of the five Mercy critical concerns is 'to reverence earth and work more effectively toward the sustainability of life and toward universal recognition of the fundamental right to water.' It is our obligation to continue to look for ways to be good stewards of the Earth," says Andrew P. Christ, PE, Georgian Court's assistant vice president for operations.

Georgian Court has already adopted a sustainable mindset. As a signatory of the American College and University Presidents Climate Commitment, President Rosemarie E. Jeffries, RSM, Ph.D., is committed to a systematic and comprehensive approach to becoming carbon-neutral and more environmentally sensitive, including migration to green cleaning chemicals; purchasing a hybrid vehicle for college use; incorporating sustainable building design on the campus; enhancing recycling and waste minimization; adding shuttle service to provide better student access to mass transit; and, in the future, using solar panels for onsite renewable power generation.

According to the Environmental Protection Agency, an energy purchase of this magnitude will eliminate approximately 5,247 tons of carbon dioxide emissions. That is the equivalent of eliminating the pollution from

- the use of 872 cars on the road for one year
- the consumption of 540,249 gallons of gasoline or 11,069 barrels of oil
- the use of 198,316 propane cylinders to fuel home barbeques
- burning 24.9 railcars worth of coal
- the average annual electricity consumption of 630 American homes

Founded in 1908 and sponsored by the Sisters of Mercy, Georgian Court University is a comprehensive university with a strong liberal arts core and a special concern for women. A forward-thinking university that supports diversity and academic excellence, Georgian Court serves over 3,000 students of all faiths and backgrounds in a residential Women's College and a coeducational University College with undergraduate and graduate programs. Georgian Court's main campus is located at 900 Lakewood Avenue, Lakewood, N.J., on the picturesque former George Jay Gould estate, now named a National Historic Landmark. Georgian Court also offers classes at its site at 90 Woodbridge Center Drive in Woodbridge, at Coastal Community in Wall, and at Cumberland County College in Vineland.

## *Largest Single Roof Mounted Solar Array In The USA*

The Atlantic City Convention and Visitors Authority (ACCVA) has announced that it has awarded Pepco Energy Services a 20-year power purchase agreement with the Atlantic City Convention Center (ACCC) to install the largest single roof-mounted solar array in the United States. "With each step we take, the ACCVA continues to embrace green initiatives and stand at the forefront of the environmental movement," said Jeffrey Vasser, executive director of the ACCVA.

"Following Governor Jon S. Corzine's lead in taking a proactive look at environmental issues, our outstanding team has worked in conjunction with Pepco Energy in order to develop this project which allows us to use our natural resources to run the convention center more efficiently." "We congratulate the Atlantic City Convention and Visitors Authority and Pepco Energy Services on their agreement," said President Jeanne Fox of the New Jersey Board of Public Utilities. "This is an example of the kind of initiatives we hope to see as we transition to the sale or trade of solar renewable energy certificates (SRECs) to pay for solar projects."

Under the 20-year contract, Pepco Energy Services will build, own, operate and maintain the 2.36-megawatt solar array for the Atlantic City Convention Center. Construction will begin during the month of June and will be completed by December 31, 2008. The Convention Center is operated by the management company SMG. "Pepco Energy Services is excited to be working with the Atlantic City Convention Center on this incredible renewable energy project," said David Weiss, President and Chief Operating Officer of the Energy Services Division of Pepco Energy Services. The solar panel project is the first in a series of initiatives the ACCVA is planning, including participation in the Convene Green Alliance.

## Events

### *USGBC- NJ Summer BBQ Beach Social*

August 7th, 5 pm: Jenkinson's North Bar & Grill on the Boardwalk  
Broadway & Ocean Ave (Adjacent to Strollo's Ice Cream) , Point Pleasant Beach, NJ 08742

Please join us for the 1st annual USGBC-NJ Central Branch Summer BBQ Beach Social. We've chosen Jenkinson's Boardwalk and Beach as the perfect backdrop to a fun FAMILY focused event! The USGBC-NJ Central Branch believes strongly that our CHILDREN are the bridge to a sustainable and green future. And we're happy to sponsor THEIR first involvement in what we hope will be a lifetime of clean energy achievements! Young, old, and GREEN "in betweeners" are welcome to eat, drink, and play with us at the beautiful Jenkinson's Inlet Pavilion and Boardwalk. Enjoy a fabulous BBQ , music, great company, free fun and fireworks on the beach while showing the NEXT GENERATION what were working to preserve! Join us all day..

For more details on the day, how to register and sponsor, [www.acteva.com/booking.cfm?bevaaid=162955](http://www.acteva.com/booking.cfm?bevaaid=162955)

### *Newark's Green Future Summit*

September 11th and 12th, New Jersey Institute of Technology, Student Center

To organize Newark's Green Future Summit in collaboration with the Mayor's office and other city leaders to identify best practices and mobilize the resources to make Newark a national showcase for clean and efficient energy use, green economic development and job creation, and equitable environmental opportunity. We hope that this effort will ultimately engage and touch the lives of all Newark's 300,000 residents, especially those in its most economically and environmentally distressed communities.

The Clinton Global Initiative has provided an incredible opportunity for us to come together to focus our collective resources on helping build a green, prosperous Newark that will be a leader in the clean energy economy. The city is at a critical moment where it needs to use those assets strategically to build a more equitable, sustainable and economically stable future. The Mayor of Newark, Cory Booker, has inspired many to help him work towards his vision for Newark - and healthy, efficient, equitable communities are a central piece of this vision. The Summit will be designed to help the Mayor and his community partners realize this vision. [www.apolloalliance.org/stateandlocal\\_clintoninit.php](http://www.apolloalliance.org/stateandlocal_clintoninit.php)

### *The Sustainability Puzzle: Putting the Pieces Together*

2008 NECSC Conference - October 27-28, 2008

Please join us for the 5th Annual Northeast Campus Sustainability Consortium Conference being held October 27-28, 2008 at Princeton University. The theme this year, "The Sustainability Puzzle: Putting the Pieces Together", will look at the many interconnected and inter-disciplinary sustainability issues faced by our campuses today. Areas to be explored are: Academics, Operations, Governance and Community. Emphasis will be placed on how to engage the often disconnected members of the campus community to pursue policies and practices that result in both a smaller environmental footprint and greater awareness as a community.cate that we live on a finite planet and that matter and energy are not created or destroyed? Why, indeed, should students be interested in science, since every scientific discipline—chemistry, physical science, even biology—teach things which are contradicted each day by the way the world is run, as if there were no physical or chemical or biological limits at all?

The Northeast Campus Sustainability Consortium (NECSC) was established in October 2004 to advance education and action for sustainable development on university campuses in the northeast and maritime region. Organized around the UN Decade of Education for Sustainable Development, the NECSC members have committed to an annual meeting that advances campus sustainability by providing close networking opportunities, professional development, and access to the areas vibrant and growing college and university sustainability practitioner community. The NECSC represents more than forty institutions of higher education from the northeast United States and Eastern Canadian Provinces.

Information concerning registration and accommodations will be coming soon. Please contact us at [sustain@princeton.edu](mailto:sustain@princeton.edu) with any questions. Please visit the website for further information: [www.princeton.edu/sustainability/news/necsc-2008/](http://www.princeton.edu/sustainability/news/necsc-2008/)

# Happenings

## Raritan Valley Unveils New CHP Plant

The \$14 million power plant is expected to save the College \$400,000 a year in energy costs by providing more cost-effective power through a combined heat and power system. The plant enables the College to generate 85 percent of its electrical needs and adds heating and cooling capacity to support future campus growth. The College has received a \$1 million incentive grant from the New Jersey Office of Clean Energy (NJOCE) for the power plant improvements.

The Board of Trustees and President Casey Crabill  
Invite you to the opening ceremony and reception for  
Monday, August 25, at 3:00 p.m.

Raritan Valley Community College  
North Branch

the Raritan Valley Community College Power Plant

The Power Plant will be open for tours from 2:30 – 4:30 p.m.

RSVP by August 18, 2007 to Sheri Pontarollo  
at [spontaro@raritanval.edu](mailto:spontaro@raritanval.edu) or call 908-526-1200 ext. 8215



## Sustainability: An Event Introducing Princeton's Green Initiatives

Launching the '08-09 academic year green efforts, this event will give members of the campus and the greater community an opportunity to learn more about Princeton's Sustainability Plan and how to get involved. Faculty, staff and students will be on hand to discuss their projects and initiatives.

Location: Frist Campus Center

Date/Time: 09/17/08 at 3:00 pm - 09/17/08 at 8:00 pm

Sponsor: Office of Sustainability

Contact: Shana Weber ([shanaw@princeton.edu](mailto:shanaw@princeton.edu))

## North Jersey Greendrinks

Thursday, August 28th: 7:00 - 10:00 p.m.

South Park Bar & Grill, 30 South Park Street, Montclair

Every month, environmentally conscious people, from a variety of different backgrounds, meet up for a drink and to network with other like-minded people in a casual and informal setting. It's a great chance to relax, meet new people, develop new ideas, find employment, make friends, catch up with old business contacts, develop new business contacts, and talk about environmental issues.

[www.northjerseygreendrinks.com](http://www.northjerseygreendrinks.com)

Want to share progress towards sustainability on your campus? Please send news items to Terra Meierdierck ([tmeierdierck@njheps.org](mailto:tmeierdierck@njheps.org)) for inclusion in our newsletter.

NJHEPS GRATEFULLY  
ACKNOWLEDGES THE  
SUPPORT OF:

NJHEPS Corporate Sponsors;  
NJ Natural Resources; New  
Jersey Board of Public Utili-  
ties; New Jersey Clean Energy  
Program; PSEG Foundation,  
ATT Foundation; and NJHEPS  
40+ Member Institutions

### NJHEPS STAFF

John L. Cusack, Executive  
Director

Terra Meierdierck, Program  
Manager

Felicia Amaechi, Program  
Assistant

### EXECUTIVE COMMITTEE

Reginald Luke, President

Daniel Watts, Immediate Past  
President

Clint Andrews, Vice-President  
and Treasurer

Peter Jansson, Vice-President

Lynn Stiles, Vice-President

Shana Weber, Vice-President

### SENIOR ADVISOR

Donald Wheeler

New Jersey Higher Education  
Partnership for Sustainability

c/o NJIT - YCEES

138 Warren Street

Newark, NJ 07102

p: 973.642.4881

f: 973.642.7170

[www.njheps.org](http://www.njheps.org)